

O IVER OIL MANUFACTORIES-LONGVA and KJERSTAD, NORWAY.

DURISHING MEAT AND MALT

ended by the Medical Faculty in all cases of weakened constitution, and particularly useful in cases of ladies, ing, and delicate children, or in ailments where a stimulating—digestive—tonic—nutrient is indicated.

Dose—A quarter to Two Ounces twice daily.

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Ma East, London, S.W.: also at 55 Grosvenor Street, and 26 Davies Street, W. LABORATORY-MITCHAM, SURREY.

ALS AS SUPPLIED TO H.M. THE QUEEN AND THE ÉLITE OF THE ARISTOCRACY,

2/6 per dozen. Six dozen Carriage free.

DA, PURE POTASH, LEMONADE, AND AROMATIC GINGER ALE. Special Terms for Quantity.

EXCHANGE COLUMN, PAGE 12. D BUYERS' REFERENCE LIST AND INDEX TO ADVERTISEMENTS, PAGES 29-31. THE NEW ANTIPYRETIC

PHENACETINE

(Para-Acetphenetidine).

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PHENACETINE has been already used with marked success in the realine Neuralgia, Vomiting, Pneumonia crouposa, Typhus Abdominalis, M billi, S Puerperalis, Pleuritis, Pyæmia, Typhus Recitativus, Meningitis Cerebrospina, Perit Perityphlitis, Parametritis, Angina.

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MAY BE HAD THROUGH ANY OF THE

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(See former Advertisements in The Chemist and Druggist.)

MEDALS-1851, 1855, 1862, 1867, 1885.

GARDEN WHARF, CHURCH ROAD,

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OLDFIELD, PATTINSON &

Sole Proprietors and Manufacturers of the

"Siver Churn" Butter Colouring

I purely Vitable preparation for giving to Butter, at all seasons, a rich cowslip tint, not obtainable by ther means. It is the best and cheapest preparation in the market, and does not crust or deposit like the Panish and merican makes, and has the further advantage of being a Home Product. Druggists in in grazing a tricts will find this a very saleable line. It is sold in bottles attractively got up at

> 5s. size I6s. 8s. 38s. per dozen.

is usual 10 er cent. discount. Buyers of £5 worth gross value, which may be assorted to suit their quirements, re put on full wholesale terms.

For lar Dairies and Druggists, who prefer to bottle it under their own name, we supply in bulk at

per lb. in Whr. Qts., 100s. cwt. in 2-gallon bottles.

lso in 12-s lon and 3 and 5 cwt. casks at special prices. Title and Trade Marks ("Silver Churn" and "Buttercup") are registered.

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ECIALIJIES—Cucumber Cream, 1/2 per lb., 1/ in Wr. Qts.

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Botanic Extract, 1/2 per lb., 1/ in 2-gal. bots.

Persian Bouquet, 8/ per lb., 7/6 in Wr. Qts., a choice and very lasting perfume.

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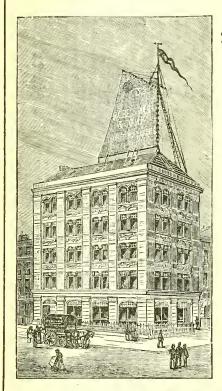
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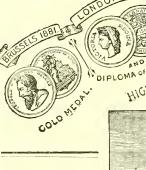
Makers.

ge buyers re requested to write for special quotations, at the same time stating quantity. Price list may be had on application with business card.

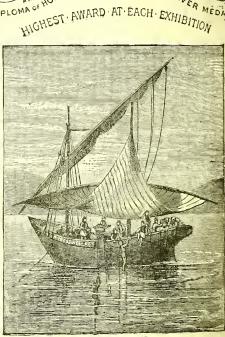
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BR. VCHES

G SGOW. IBLIN. LIERPOOL.

RÆUS. SIYRNA. VANA.

NABAU, N.P.

LONDON. SQUARE,

MR. R. CRESSWELL, Managing Director.

This Business was established in 1850 by Mr. R. Cresswell, the senior partner the welknown firm of R. CRESSWELL & CO., now carried on as a Limited Company, of which MIR. Creswells the Weng Street Property of the Weng Street Pr is the Managing Director.

R. CRESSWELL & CO., LIM., can supply Sponges of every quality YIELD G MUC BETTER VALUE than those offered by other firms.

We have had OUROWN STAFF on the Mediterranean and Bahama Fishe es for the last 30 YEARS and fear NO COMPETITION.

SHOW SUITABLE FOR THE APPROACHING EASON. SPECIAL LINES NOW ON

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PLEASE TO NOTE STYLE AND ADDRESS:

LIMITED RESSWELL

ESTABLISHED 850. LION SQUARE, LONDON, W.C.

SIEVENSON & HOWELL

"EXTRA QUALITY"
Soluble Essence of Jamaica Ginger

CONCENTRATED IN VACUO.

GUARANTEED PURE AND FREE FROM CAPSICUM.

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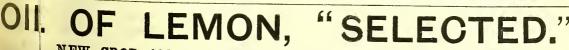
"THE LANCET"

July 3rd, 1886. Page 17.

"SOLUBLE ESSENCE OF JAMAICA GINGER,
"GUARANTEED FREE FROM CAPSICUMS.

"(STEVENSON & HOWELL, SOUTHWARK STREET.)

"According to our analysis and examination this is a perfect ginger essence. We have searched most carefully for the active principle of capsicum, and have not found the slightest trace. No less than 98.8 per cent. of the essence is volatilised by heat, including, of course, the fragrant essential oil, and of the residue culy one-half is soluble in ether, so that the fixed resin in the essence only amounts to 0.6 per cent. As might be expected from its composition, the flavour of this essence is more delicate than that of the finest root."



NEW CROP, 1888. GUARANTEED ABSOLUTELY PURE.

ANERICAN FOAM SYRUP

RODUCING A CLOSE, WHITE, CREAMY, SOLID HEAD, free from large bubbles.

STEVE SON & HOWELL, STANDARD WORKS, 95a SOUTHWARK ST., LONDON, SE.

CAUTION.

TO CHEMISTS AND DRUGGISTS, AND OTHERS.

Many of our customers, especially those abroad, having complained that when ARTICLES OF OUR MANUFACTURE have been ordered through Merchants and Wholesale Houses, other and inferior goods have been substituted, we beg to inform the Trade that to insure the supply of OUR MANUFACTURES in future all our BEST QUALITY GOODS will bear Trade Mark as annexed.

S. MAW, SON & THOMPSON.

ALDERSGATE STREET, LONDON.

S. MAW, SON & THOMPSON'S

TRADE MARK.



TO IMITATE WHICH IS FLONY.

The following SPECIALTIES are well worth the attention of the Trade:—

MAW'S ADHESIVE PLASTER

MAW'S AMBROSIAL SHAVING CREAM

MAW'S ANTISEPTIC INHALERS

MAW'S ARECA TOOTH PASTE

MAW'S AROMATIC TOOTH PASTE

MAW'S ATMOSPHERIC ODORATORS for Perfumery

MAW'S AURILAVES

MAW'S BACK RESTS AND BED TABLES for

Invalids

MAW'S BANDOLINE

MAW'S BATH THERMOMETERS, Latest Improvements

MAW'S BLEEDING BASINS

MAW'S BOUGIES & CATHETERS, Elastic Gum

MAW'S BOUGIES & CATHETERS, Silk Web

MAW'S BREAST RELIEVERS

MAW'S BRILLIANTINE

MAW'S BRONCHITIS KETTLES

MAW'S BROWN WINDSOR SOAP

MAW'S BRUSH AND SPONGE POWDER

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MAW'S CAPSULES

MAW'S CATHETERS, Silk Web, Unbreakable Eyes MAW'S FLESH GLOVES, RUBBERS, &c

MAW'S CATHETERS, Silk Web, Unbakable Eyes, and Solid Ends, Patent

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MAW'S COCAINE SPRAYS

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MAW'S CONSTANT & INDUCED BATTIES

MAW'S COSMETIQUE

MAW'S COTTON WOOL

MAW'S COURT PLASTER

MAW'S COVERED POTS FOR DISPENS G, &c.

MAW'S DISPENSING BOTTLES

MAW'S DOMESTIC MUCILAGE

MAW'S EARTHENWARE INHALERS

MAW'S ELASTIC STOCKINGS, KNEE C 'S, &c.

MAW'S ELECTRO-MAGNETIC MACHINE

MAW'S ENEMA APPARATUS

MAW'S ENEMA APPARATUS (HIGGII ON'S)

MAW'S ENEMA APPARATUS (HIGGI ON'S),

with Disconnecting Tubes

MAW'S FEEDING BOTTLES

S. MAW. SON & THOMPSON'S SPECIALTIES—continued.

M.V'S FLOATS AND WICKS MAW'S PERFUMERY MAW'S PESSARY MOULDS MV'S FULLERS' EARTH MAY'S FUMIGATING PASTILLES MAW'S PILL BOXES MAY'S FUMIGATING RIBBON MAW'S PILL MACHINES MAY'S GAS STOVES MAW'S POMADE BOTTLES MAY'S GERMAN FLOATS MAW'S POMADES MAU'S GLYCERINE JELLY MAW'S POWDER FOLDERS MAV'S GOLD BEATERS' SKIN MAW'S RESPIRATORS MAV'S GRADUATED MEASURES MAW'S RETORT STANDS MA''S HAIR BRUSHES MAW'S ROOT CUTTERS MA'S IMPROVED STETHO-MAW'S ROSE LEAF POWDER BINAURAL SCOPES MAW'S SAUCE PIQUANTE MA'S IMPROVED DOUCHES MAW'S SCALES AND WEIGHTS MA'S IMPROVED HEARING TRUMPETS, MAW'S SEALING WAX Nickel Plated MAW'S SMELLING BOTTLES MA'S IMPROVED INDIARUBBER URINALS MAW'S SODA WATER TAPS MA'S IMPROVED SUBCUTANEOUS MAW'S SPIRIT LAMPS SYRINGES, with Huggett's Permanent Solutions MAW'S SPRAY PRODUCERS MA'S IMPROVED VAGINA SPECULUMS. MAW'S Covered with Web and Elastic Gum Antiseptic Purposes MA'S INDIARUBBER TEATS MAW'S SUPPOSITORY MOULDS MAIS INHALERS MAW'S SURGICAL APPLIANCES MAIS ISINGLASS PLASTER MAYS LABEL DAMPERS MAW'S SYRINGES MAYS LIME JUICE AND GLYCERINE

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MAYS LIPSTICKS MAYS MARKING INK

MAYS MEDICINE CHESTS

MAVS MENTHOL CONES

MAV3 MORTARS AND PESTLES MAV; MOUTH AND THROAT SPRAYS

MAW; NIPPLE SHIELDS

MAN; OILED SILK

MAN; PALETTE AND PILL KNIVES

MAW; PERFUMED TOILET SOAPS

MAW'S SPONGE BAGS AND BATHING CAPS

STEAM AND HAND BALL SPRAYS for

MAW'S SURGICAL INSTRUMENTS

MAW'S TEETHING PADS

MAW'S THERMOMETERS

MAW'S TOILET POWDER

MAW'S TOOTH BRUSHES

MAW'S TOOTH PICKS

MAW'S TRUSSES

MAW'S VIOLET POWDER

MAW'S WAFER PAPER

MAW'S WARBURG'S TINCTURE

MAW'S WATCH SPRING PESSARIES MAW'S WAXED PAPER

MAW'S WHITE DEMY PAPER

TAYLOR'S SUPER A1 LINT.

SPECIAL TERMS TO SHIPPERS. SAMPLES AND QUOTATIONS ON APPLICATION.

For f ther particulars see Quarterly Price Current and Book of Illustrations, which will be forwarded on application, enclosing Business Card, post free to any part of the world.

S. MAW, SON & THOMPSON,

SU GICAL INSTRUMENTS & DRUGGISTS' SUNDRIES,

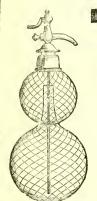
7 to 12 Aldersgate Street, LONDON, E.C.

MAY, ROBERTS & C)

9 CLERKENWELL ROAD, LONDON, E.

Are open to make special arrangements with Country Propritors to hold stock in London of their Proprietary Articles

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SELTZ

3 PINT. 2 PINT. 2/98/ 12/5Caned, each ... 8 NT. 5 PINT.

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\$2 worth or more, 5 per cent. discount.

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Telegraphic Address-"FEEDING BOTTLES LONDON."

SEE THAT THEY GET HE BUYERS ARE CAUTIONED TO



Which may be known by the Name of the Inventor being on the Government tamp.

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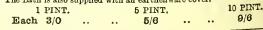
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This Water Bath will supply a long-felt want amongst Chemists and Perfumers, where sm quantities of materials have to be dealt with.

The old form of Water Bath necessitates the use of a second vessel for pouring the melt cream, or other substance into the bottles or jars in which they are sold. In the "MAY JERTS" Water Bath the earthenware bowl can be lifted out of the tin containing the boiling water, t process of cooling being thereby very much expedited, and the contents can be poured into the bottles or a direct from the bowl. The Bath is also supplied with an earthenware cover.



ROAD, LONDON, E.C

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MAY, ROBERTS & CO.

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CARRILE ON SUNDRIES. - We allow 5 per cent. discount on orders for £2 worth of "Sundries" in lieu of Carriage. B his arrangement our Friends are enabled to have enclosures sent with our goods, which they were unable to when we paid Carriage.

NO THVELLERS EMPLOYED - BUYERS ARE THEREFORE SPARED THEIR EXPENSES. COMPARE OUR PRICES.

RIDUCED F FEEDING BOTTLES.





"Sandringh ." Screw Glass Stoppers.





"Colval." Wood Tops.

PRICES FO	F	X
Sandringham (1s.) - W	ит	TE.
Earthenware Tops-		,
With White Fittings, each in	8.	d.
box, two brushes per doz.	5	6
With Black Fittings, each in		
box, two brushes per doz.	6	0
Spare White Fittings ,,	2	9
Spare Black Fittings ,,	3	3
Spare Bottles ,,	1	4
Sandringham (1s.) - W	Ήľ	ΤE,
Screw Glass Stoppers— With White Fittings, each in	8.	d.
box, two brushes per doz.	5	6
With Black Fittings, each in	O	0
box, two brushes per doz.	в	0
One 1771 /4 - 73/44/	2	9
Onone Die als Bitties	3	3
Spano Pottles	2	0
,,		
Sandringham (1s.) — W Screw Metal Caps, Nickel plan		
With White Fittings, each in	3,	d.
box, two brushes per doz.	6	0
With Black Fittings, each in	•	•
box, two brushes per doz.	6	5
Spare White Fittings	3	6
Spare Black Fittings	4	0
Spare Bottles	ī	6
	_	
Colonial (6d.) — GREEN, Boxwood Tops—		
With White Fittings,	s.	d.
1 dozen in box per doz.	2	4
With Black Fittings,		
1 dozen in boxper doz.	2	7
With White Fittings,		
each in boxper doz.	2	10
With Black Fittings,		
each in box per doz.	3	1
If with White instead of Green		
Bottlesper doz. 2d. e	xtr	a.
Spare White Fittings per doz.	1	4
Spare Black Fittings ,,	1	7
Spare Green Bottles ,,	0 1	0

Spare White Bottles

With Black Fittings,

With White Fittings,

Spare Black Fittings

Spare Bottles

Colonial (6d.) - GREEN, Screw Glass Stoppers -With White Fittings,

1 dozen in box per doz. 3 0

1 dozen in box per doz. 3 3

each in boxper doz. 3 6 With Black Fittings, each in box per doz. 3 Spare White Fittings ,,



"Colonial." Screw Glass Stopper.



"Popular." Screw Glass Stoppers,



Colonial (1s.)—WHITE, Earthenware Tops—

	d.
4	9
5	3
2	3
2	9
-	
1	0
	5 2

Colonial (1s.) - WHITE, Screw Glass Stoppers-

With White Fittings, each in	3.	d.	
box, two brushesper doz.	4	9	
With Black Fittings, each in			
box, two brushes . per doz.	5	3	
Spare White Fittings ,,	2	3	
Spare Black Fittings	2	9	
Spare Bottles	1	9	

Popular (6d.)-GREEN, Boxwood Tops

With White Fittings,	3.	(
1 dozen in hoxper doz.	2	
With Black Fittings,		
_1 dozen in box per doz.	2	1
With White Fittings,		
each in boxper doz.	2	1
With Black Fittings,		
each in boxper doz.	3	
If with White instead of Green		
Bottlesper doz. 2d.	ext	70
Spare White Fittings per dez.	1	4
Spare Black Fittings	1	-
Spare Green Bottles	0	10
Spare White Bottles	1	(

Popular (6d.)—GREEN,

borew Grass Broppers-		
With White Fittings,	8.	d.
_1 dozen in boxper doz.	3	0
With Black Fittings,		
1 dozen in box per doz	3	3
With White Fittings,		
each in boxper doz	3	6
With Black Fittings,		
each in box per doz.	3	9
Spare White Fittings	1	в
Spare Black Fittings	1	9
Spare Bottles	l	9

Popular (1s.)—WHITE

Earmenware 20ps—		
With White Fittings, ea and	з.	d.
box, two brushespe 1 2.	4	6
With Black Fittings, each in		
box, two brushesper doz	5	0
Spare White Fittings	2	3
Spare Black Fittings	2	9
Spare Bottles	Ā	0
Popular (15.) — WHITE		

With White Fittings, ea	Ť.	d.	
box, two brushesper 102	4	9	
With Black Fittings, ea			
box, two brushesper and	-5	3	
Spare White Fittings	2	3	
Spare Black Fittings	2	9	
Spare Bottles	- 1	9	

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1 9

в

1 0

MAR 17, 1888.

HEAD-QUARTERS FOR SPON



REASONS WHY CRESSWELL BROTHERS' SPONG'S ARE BEST AND CHEAPEST:-

CRESSWELL BROTHERS are the ONLY FIRM who have their own buying establishme's on the and who hold the whole process of the Sponge business in their own hands. They thus bean their cheaper than any house in the trade, and can consequently sell cheaper.

CRESSWELL BROTHERS execute all orders from the LARGEST and BEST ASSO ED STOOL World. The requirements of every customer can therefore be effectually studied and compid with

CRESSWELL BROTHERS' Sponges are personally selected on the Fisheries, and are e best than produces. All C. B.'s customers can depend upon receiving the qualities best adapted for eir trade. Sponges are originally selected with a view to suiting each particular class of trade.

> FICTION **VERSUS**

Buyers are cautioned against being misled by bombastic advertisements and circurs which either totally unfounded statements, or grossly exaggerated facts. Cresswell BRI HERS'sta are founded on FACTS and can be substantiated to the fullest exte.

Buying establishments at Ægina (Greece) and Calymnos (Turkey); Nassau, Bahama Islands, ar Key West,

SOLE AGENTS FOR THE CUBAN SPONGE FISHING COMP

Branches at 3 ALBION CRESCENT, GLASGOW; 11 WETERINGSTRAAT, AMS1 ?DAM. GOVERNMENT CONTRACTORS.

AGENCIES IN ALL THE MOST IMPORTANT EUROPEAN AND COLONIAL CEN ES. y can then

Buyers of Sponges should never purchase without first writing to Cresswell Brothers for samples and prices. they will get WHAT THEY WANT.

EDITION OF ILLUSTRATED PRICE LT. WRITE FOR NEW

Sq. (next to Church).

No connection whatever with a Company trading under a similar name in the same square.

20

IMPORTANT TO SHIPPERS.

SPONGES.

FACTS SPEAK LOUDER THAN WORDS."

The ttention of Buyers is called to the following FACTS in connection with SPONGES:—

ESWELL BROTHERS are the Largest Exporters.

ESWELL BROTHERS hold the Largest Stock.

ESWELL BROTHERS employ the Largest Staff.

ESWELL BROTHERS sell at the Lowest Prices.

otiers' sponges with any others they may have been it will then be clearly demonstrated that CRESSWELL BR'THERS' are the Best and Cheapest in every sense.

ESSWELL BROTHERS' Price List will be sent, post application, to any part of the world. It is the configest and most comprehensive, and contains lower quotations than any ever issued.

comection with a Company trading under a similar name in the same Square.

PLEASE NOTE CAREFULLY STYLE AND ADDRESS OF FIRM :-

RESSWELL BROTHERS,

SPONGE IMPORTERS AND MERCHANTS,

² RED LION SQUARE, LONDON, W.C.

[See also opposite page.

EXCHANGE COLUMN.

This section of "The Chemist and Druggist" must be closed for press by Thursday noon of each lek Remittances payable to EDWARD HALSE.

TERMS.

Advertisements in this department must be paid for in advance. From this rule no deviation can be made. Insertions are charged at page of \(\frac{1}{2}\)d. per word, provided the advertiser attaches his name and address, for each word of which he must also pay at the same rate; or if he pays per word, his name and address will be registered and a figure attached to his advertisement. All correspondence referring to that figure must be a pass to "The Publisher of The Chemistra And Druggiers," 42 Cannon Street, E.C., and the figure must be distinctly endorsed upon the envelope. Let will then be forwarded to their proper destination. A price is counted as one word, no e.g., £1 10s. 6d.

DEPOSIT OF MONEY.—In order to ensure safety we offer the following system:—The purchaser of anything advertised in the range Column may remit the amount to us. We acknowledge receipt to both parties by post cards, and only pay the money deposited on the advice the remitter. Whether returned to him or paid to the soller, we charge a commission of 6d. on any transaction of £3 or less, or 1s. if above that at at.

FOR DISPOSAL.

Drugs and Chemicals.

Clearance lines; 20,000 good, small, poppy heads, 2s. per 1,000-lot for 25s.; 200 lbs. rad. rhei. E.I., for tineture, 7d., lb. lot 6d. lb. Kemp, Drnggist, Horncastle.

Seven lbs. chlorodyne, 2s. 6d., full strength; 1 lb. oil nutmegs; 1 lb. oil mace; 1 lb. oil caraway; 4 lbs oil mace, expressed, six Africau Restorer, 5s. doz. or exchange. Andre, 144 Mill Street, Ancoats, Manchester.

Hop resin, a very powerfully appetising and soothing tonic; would be an invaluable appetising adjunct in horse balls, pills, and medicated lozenges; being a by-product 6d. per lb. only, 7 lbs. 1s. 6d. Hay, Manufacturing Chemist, Hull.

Sp. vini rect., 56 over proof; manufacturing pharmacist has about 30 gallons for disposal, mostly clear, remainder simply requiring filtering; 18s. per gallon accepted, taking lot; cash with order. Sample on application to Butterworth, Bradford, Yorks.

Snrplus after Stocktaking .- Oil rose geranium, citronell., H.G. oil mint, essence lemon, super ess. bergamot, snper acetic acid, beeswax, glycerine, 1.260 chem. pure, black pepper, Calf. honey, sac. ustum., gold bronze; also 40 lbs. cyauide potash; insect powder; cod liver oil; price on application. Sowerby, Chemist, Middlesborough.

Proprietary Articles.

Patent medicines, list sent; exchange. Address, G. Cowdale, 99 Cambridge Street, Rngby.

Half-dozen quart Æsculap water, quite elean; what offers? Griffith, Burnham, Somerset.

Surplus stock patents, slightly soiled, half retail price. Send for list, Younger & Ridley, Brampton, Cumberland.

6 3-dozen tius manna cakes, 2s. each; 8 2s. 9d., 2 4s. 6d. Arabian food; 2 2s. 9d. Arabian food biscuits, half retail price. Leigh, Bishop Auckland.

 $13\frac{1}{2}d$. Eclectica; two $13\frac{1}{2}d$. James's of loga. Effective; two 152a. Jamess file pills; four 1s. Evans's balm Lebanon; four 132d. Hooper's pills; three 132d. and one 2s. 9d. King's dandelion pills; half retail prices; carriage paid. Jones, chemist, Wavertree.

Formulæ.

Reliable recipes, 6d. each; full set of 130, neatly copied in book, 7s. 6d.; send for list. "Chemist," Edwards, Wye, Kent.

Grey hairs; reliable recipe to remove same, and restore to untural colour, like Mrs. Allen's; pays well. Send 13 stamps to 183/30.

pays well. Send 13 stamps to 183/30.

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37	DAVISON, D.	,,,	Pain, P.	,,
27	Davison, J. R.	,,	PLEWS, W. H.	,,
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	THOS. EDMONSON	
12	G. W. GIBSON	WHITBY.
37	G. J. KERR	LIVERPOOL.
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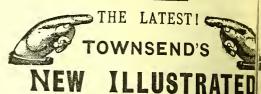
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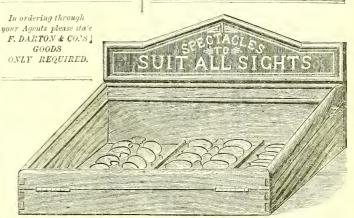
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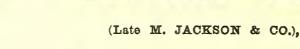
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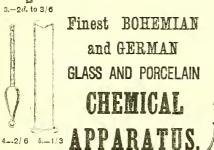
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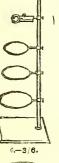
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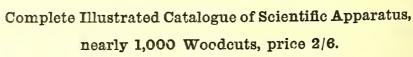
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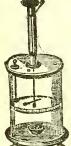
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GREAT BRITAIN

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- 6	· prite ,	",		••									,,	50/	"	60/
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INJUNCTION.

IN THE HIGH COURT OF JUSTICE, Chancery Division, on the 23rd July, 1887, the case of HE GREAT TOWER STREET TEA COMPANY, Limited, versus LANGFORD & CO., Plymouth, was decid. Mr. Justice Stirling (without calling upon Counsel for the Plaintiffs to reply) gave judgment in favo of The Great Tower Street Tea Company, Limited, and granted a Perpetual Injunction, with its, restraining the Defendants from packing their Teas in the manner complained of, or in such way as all lead the public to suppose they were the Teas of the Plaintiffs.



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Registered Trade Marks, Nos. 44,027 and 43,992.

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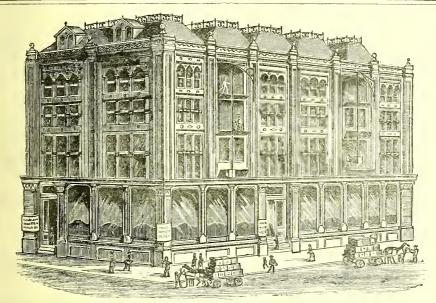
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NEPER THE

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OINTMENT BASES Binghamton Oil Refining Co Chesebrough (Vaseline) De Pass, E. A., & Co. (Petroline Grindley (Petroleum Jelly)

OPTICIANS Darton, F., and Co. Hughes, W. C. Perken, Son and Rayment Raphael J., and Co. PAINTS OILS.]

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Lorir and Co.
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Wan; Brothers (Heliotrope
Ps. (28)

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Wine)

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Roberts (Foreign)
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Biggleston, E. R.
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PEPPERMINT

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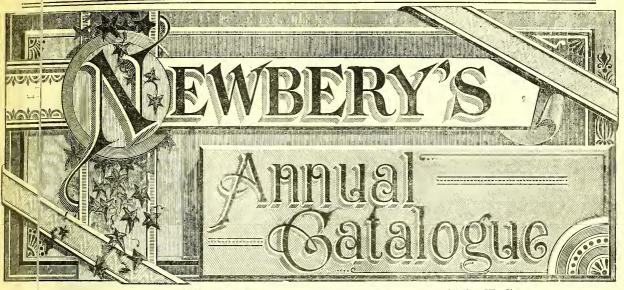
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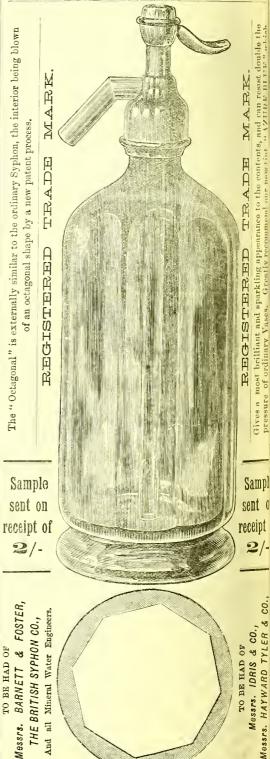
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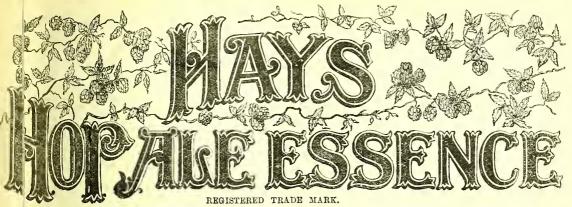
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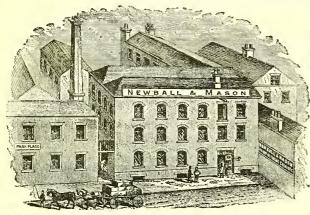
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a sparkling foam like bottled ale.

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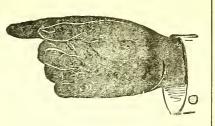
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"ny Al BRAND MENTHOLS with printed directions on, and in addition have an Advertisement of a Spécicé of your own along the back of the boxes, such as 'Smith's Tonic for Strengthening the Nerves, 1s. 6d. per bottle c. By this means every Menthol Cone you sell helps to create a sale for your own preparation. If you wrap a handt round a bottle, when the bottle is used the bill is thrown away and the advertisement lost; but the printing on the M thol boxes being permanent, every time a person uses the cone he is bound to see any advertisement appearing on the b, thus making this one of the most lasting and efficient means of advertising to be found anywhere. The only chancfor a chemist nowadays is in selling his own specialities, therefore do not lose such an opportunity as this of ad tising them."

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Can he their name and address, &c., printed on the back of the boxes free of charge, thus bringing this offer within the reach of most Chemists, a gross of cones being no ill stock at any time.

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EVUMNY CONE, measuring 9 inches high, made of highly polished boxwood, with directions printed on clearly, is given to purchasers of £1 worth; or two if an order for 30/ is placed.

No.	Description. Price per doz.	1
	ass Bottles with Metal Screw Cap 3 3	
IB 6d.	ne Ditto Ditto 3 4	
2 64	llow Wood, lid serving as holder 3 0	
28 6d	he Ditto Ditto Ditto	
Z 04	tllow Wood, lid serving as holder. 3 0 tto, Barrel Shape	
0 34.		
4 13.	. Do. Do. (Menthol on Wood	
	ount) 6 0	
5 Is.	. Do. Do. (Bullet Cone wrapped	
	tinfoil) 6 0	
6 92	oxwood, Pedestal Shape 5 0	
7 04	oxwood, Pedestal Shape 5 0	
0 00	s. Do. Barrel Shape 6 0	I
8 94.	18. Do. Barrel Shape 6 0 18. Do. Acorn Shape 6 0	
3 37.	U.S. Do. Skittle Shape 6 0	
9A 18.0	6 Do. Do. 7 6	
9c 1/6	Cs. Do. Do. 9 6	
95 67	(d good walve De	
oo ou.	(d.,good value,Do. 4 0	
	(A very cheap line.)	1
10 6d.	ong Willow Boxes, 12 on a Card 3 6	1
11 64	rwood Podestal and South a Card S	
11A 6d.	swood Pedestal, each in a box 4 0	
ILA DO.	Ditto 12 in a box 3 6	



	_	_
No. Description. Price pe	r d	oz.
13A 1s. Vegetable Ivory, 12 in a box, Acorn		d.
Shape	5	9
14 1s. Pyramid Shape, each in a box	6	
14 A 1s. Ditto 12 in a box	6	3
14L 1s. or 1/6 Ditto extra - sized Cone,		_
12 in a box	7	6
15 6d. Cardboard Case, 12 in a box	3	0
17L Is. Draughtsman Shape, Boxwood only,	-	0
extra large	6	6
17 1s. Ditto Ebony only	6	3
17s 6d. Ditto Boxwood	4	0
18 1s. Combination Pincushion and Menthol	7	0
	3	
	0	0
	7	6
with glass shade, very attractive,		
each in a box	6	6
21 a 1s. Ditto Ditto 12 in a box	6	3
23 6d. Ditto Ditto each in a box	4	0
23A 6d. Ditto Ditto 12 in a box	3	6
24 6d. Boxwood, Bottle Shape, very attrac-		
tive	3	6



No. 24 - 64

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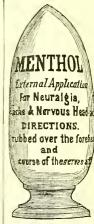
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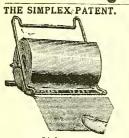


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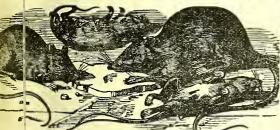
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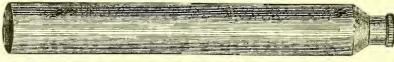
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1/6 per packet of 20; 8/ per 100.

1/6 per packet of 20; 8/ per 100.£3 6/8 per 1,000. No. 1.—Mild Smoking Mixture, 12/ per lb. No. 2.—Strong Smoking Mixture, 12/ per lb.

FRENH HYGIENIC SOCIETY, 56 CONDUIT STREET, REGENT STREET, LONDON,

UPON RECEIPT OF A FULL REMITTANCE.

Both the bove can be obtained through Messrs. Kemp & Co. (Lim.), Bombay, or direct from the Consignees, the French Hygienic Society, 56 Conduit Street, Regent Street, London, upon receipt of a full remittance.

T. KERFO

Medicated Lozenges and Jujubes, GRANULAR EFFERVESCENT PREPARATIONS, SUGAR COATED PILLS &C.

BRITISH PH			PŒ	IΑ
LOZE	NGE	S.	s.	d.
Acidi Tannici			2	-6
Bismuthi			3	G
Catechu			2	0
Ferri Redacti			2	0
Ipecacuanhæ			2	0
Morphiæ			3	0
Morphiæ et Ipce	cac.		3	0
Opii			3	-0
Potassæ Chlorat	tis		2	2
Soda Bicarbona	tis		2	0

BOILED SUGARS. FINEST QUALITY ONLY,

Aniseed Drop Butter Seotch Drops Choeolate Drops Tablets Cough Drops (Brown) ", ", (Pink) Efferveseing Shetbet Drops Extract of Malt Tablets Everton Toffee Tablets Ginger Drops Honey Drops Horehound Drops Lavender Drops Lemon Barley Sugar Drops Twisted Ginger Barley Sugar Drops Twisted Mint Pennetts Musk Drops Acidulated Apricot Drops
Black Current Drops

Cayenne Drops Cherry Drops Damson Drops Greengage Drops
Tablets Jargonelle Pear Drops " Tablet-Lemon Drops Tablets Lime Fruit Drops Tablets Magnum" Bonum Tablets Magnum Bonum Drops Mixed Fruit Drops Tablets

Orange Drops

Pineapple Drops

Tablets

Raspberry Drops Tablets Rose Drops Strawberry Drops ,, Tablets Tamarind Drops

", Vanilla Drops
", Tablets
Acidulated Drops, various, in
6d. bottles, 4/ per dozen; also in
4lb and 5lb bottles.

DIGESTIVE CANDY.

A pleasant Stomachie 1s. 4d, lb.

ENGLISH BRONCHIAL LOZENGES

Are superior to the American. They are an excellent Cough Loz-nge, and for the use of singers they are unique. 3s. per lb., 6d. boxes 3s. per dozen.

THROAT HOSPITAL LOZENGES.

	Acidi Benzoici			3	0
	Carbolici		•••	2	0
			• • • •		
	., Tannici		•••	2	6
	Althae			2	-0
	(1 1 1			α	0
	Catechu			2	U
	Cubebæ			3	0
	Gnaiaei			3	0
ı	Guaraer		• • •		-
	Hæwatox			3	0
ľ	Kino			9	- 6
			• • • •	_	
	Krameriæ			3	6
	Lactucæ			3	0
	Potassæ Chlorat	1		2	-6
	,, Citratis			3	0
	., Tart. A	eid.		3	0
	Sedativi			3	0
	secauvi		• • •	0	U
	the state of the s	DE	The second second	_	_

JUJUBES.

Delectable	-2	2
Voice	2	0
Magnum Bonum	2	-0
Black Currant	2	0
Liquorice	1	4
Glycerine (oval or square)	2	-0
Crystallized	2	-0
Rose	1	4
" Crystallized	1	4
Paté de Guimauve	2	-6
Mixed Fruit, Crystallized	1	4
Chlorodyne, Crystallized	3	-0

LAXATIVE TAMARIND LOZENGES.

A pleasant Fruit Laxative of the best kind. 3s. lb.; 6d. boxes, 3s. per doz.

LOZENGES.

Aniseed Lozenges	1	0
" Pipe	1	8
Black Current Lozenges	2	-0
Black Current, Tannin,		
Catechu, and Cayenne		
Lozenges	9	G

			s.	-d
Borax Lo	zenges		2	-0
and	Chlorate	of		
Pota	ish Lozenge	s	2	2
Caloniel L	ozenges, i g	rain		
in each	***		2	0
Do., 1 gra	in in each		2	6
Do., 2			2	9
Do., 3	٠,	• • •	3	0
27 1	*			
Each	Lozenge Ste	ampe	d.	
Camphor .	Lozenges		2	0

Each Lozenge Stampe	d.	
Camphor Lozenges	2	(
Cachou Aromat., very su-		
perior	3	- (
Cayenne Lozenges	2	- (
Do., curiously strong	2	6
Chlorodyne Lozenges	2	8
" No. 2	1	6
Thyme Breath Lozenges	3	ϵ
Bouquet Lozenges, No. 1	3	-0
., , No. 2	2	-6
Persian Lozenges, various		
colours, flavoured with		
French Essence	2	0
Bouquet Lozenges, No. 3	1	6
Red and White Roses.		
very fragrant, about 90		
to oz	2	-0
Pectoral Cough Lozenges.		
30 grain Morphia in		
	2	8
Balsamic Cough Lo-		
zenges, No. 1	2	0
Do. No. 2	1	6
Special Cough Lozenges,		
contain no opiate	1	6
English Bronchial Loz-		
enges	3	()
Diarrhœa Lozenges	3	0
Digestive Tablets	2	6
. Candy Gallic Acid Lozenges	1	4
Gallic Acid Lozenges	3	0
Ginger Lozenges, very		
supericr	2	0
Gelatine Lozenges	1	6
Musk Lozenges	2	2
Lavender Lozenges, Rough	1	6
Otto of Rose Lozenges	2	0

Digestive Tablets	2	-6
. Candy	1	4
Gallic Acid Lozenges	3	0
Ginger Lozenges, very		
superior	2	0
Gelatine Lozenges	1	6
Musk Lozenges	2	2
Lavender Lozenges, Rough	1	-6
Otto of Rose Lozenges	-2	-0
Paregorie Lozenges	2	-0
Pepsine Lozenges	5	-0
Pontefract Cakes	1	-6
Pyrethrum Lozenges	2	-9
Rhatany Lozenges	3	-6
Rhubarb and Ginger		
Lozenges	2	6
Rose Lozenges, Pink	2	0
Rose Lozenges (Oval),		
Red, and White	2	0
Santonine Lozenges,		
1 grain in each		
Ditto, 2 grains in each		
,, 3 ,,		
Soda & Ginger Lozenges	2	0
Sach.Carb. Iron Lozenges	$\frac{2}{2}$	6
Sponge Lozenges	4	6
Squill & Ipecac. Lozenges	2	6
/D to 1 I was see	9	G

Tamarind L.zenges

Tamarind with Tan	1
and Cayenne	
Tannin and Caye	
Lozenges	
Tolu Lozenges	
Voice Lozenges (ov	
Tannin, Black Cur.	
and Cavenne, stam.	
Voiee	
Voice L zenges (o	
gon) Tannin, Bl.	
Current, and Cayer,	
rough, not stamped	8
Worm Lozenges	1

SILVERED CACOUS,

Own make, coated wit Pure Sil ver, 5s. per lb, or in G 3 Bottle to retail 4d. each, 2s. doz. il

SPANISH JUIC AND PONTEFRACT KES. Own make

... 1s. per 1b. Corazzi Coriglio Free from gritting good fracture, and fine flat r. Pontefract Cakes, 1s. per lb.

THYME BRETH LOZENGE

Contain Thymol asantly disguised with agr ble flavours, and are a pict decoration of the containing the contain dorant for the mout la 11b bottles, 3s. 6d. per lb

VOICE AND TOAT LOZENGE

Australian Red (1

Lozenges Black Currant, Tan Catechu, and Cay Lozenges (sm. oeta)
Do. (oval) stamped V
English Bronehial zenges, very fine Tamarind Lozenges and Cay Cayenne, Tennin Chloride of Ammon 1 and Black Curran a specific in Bronch

WORM CAIP

Chocolate, Fruit Sugst, verv effectual, stampf ith vendor's name, 7s. gro. A neat dor's name, 7s. gro. 3 gross little Counter Case Lots.

ERFOOT'S BUAR-COATED PILLS.

AVING pected the manufacture of Sugar-Coated ILLS, and believing them to be greatly superior to earl-Coat Pills, I shall in future keep in stock and apply Sur-Coated Pills only.

It is not on much to say that SUGAR-COATED PILLS epared by my new process are simply the perfection Coated lls. It is well known that a large Sugar-cated Pi is more easily swallowed than a much uncoated, or even Pearl Coated. A operly-pared Sugar-Coated Pill, moreover, is tractive the eye, while it conveys only the most easant a sations to the palate. It is the quick the coating of these Pills which causes the coating of these Pills which causes the coating of these Pills which causes the coating in their warm or cold fluids that their great periority is due; for a Pill, however well or attractively coat, fails in activity if it is not capable of sing rapic disintegrated when immersed in a warm id.

Kerroo; Sugar-Coated Pills are coated without e applicion of any heat, and have no resinous arnish to apede their solubility; they disintegrate ith the most rapidity, even in cold water; their peedy solution in the warm fluids of the stomach, ad consequent activity, are therefore assured.

All the ills of the British Pharmacopæia and a wiety of hers are constantly in stock.

In adding to the ordinary Pills familiar to all harmacie I have in course of preparation a new st of minus Pills, composed of very active ingredients, uch finish Pill weighing one or two grains only, to hich the tle Granules has been given.

Chemist private forms will be prepared with the tmost accracy, and at a reasonable charge.

In a fev lays my new list of SUGAR-COATED PILLS ad GRAN ES will be ready, and I shall be pleased forward to any of my customers post free on pplication

T KERFOOT,

ANUFATURING PHARMACEUTICAL CHEMIST,

Medlock Vale Works,

ONDIN ROAD, MANCHESTER.

KERFOOT'S PEARL CACHOUS.

These beautiful little lozenges, perfectly spherical in form, weighing about 400 to the ounce, of exquisite flavour and great strength, are the most popular and perfect breath lozenges ever introduced; unlike the ordinary flat lozenges, these little Pearls have no angles to attract dust and become soiled with a slight handling, consequently they can be carried in the purse or pocket, and are altogether more portable than ordinary lozenges.

The unique appearance and flavour of this novelty quickly ensured a large sale, and its success, as might have been anticipated, quickly brought to the front some worthless imitations, the sale of which can only result in disappointment to all concerned.

Pearl Cachous

are the only genuine Pearl Cachous: they are not only better looking, but are double the strength of the imitations, and buyers are therefore requested to order the original, and thus ensure a perfect article. They are elegantly put up in attractive one-pound bottles, and are an ornament to any Pharmacy. The following flavours are always in stock—

Rose

Jockey Club

Musk

Violet

Ess. Bouquet

Rondolitia

Lavender

Clove Pink

Price 2s. 9d. per lb. in 1 lb. bottles.

Eight bottles sent carriage free to any part of the Kingdom.

T. KERFOOT,

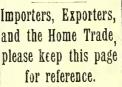
"Attractive, Effective

Profitable Advertisement!

With all Orders for £1. 2s. 6d. net we shall present a LAR(SHOW CONE, 18 inches high, made in "TERRA COTT" This is a very attractive window ornament, and quite nov, the Model representing one of our No. 161 Cones with the off, and the Cone showing a splendid white in striking contrat to the red foot.

All our Cones are guaranteed Pure Menthol, and our Prices are the LOWEST in the market, if SIZE of Cone is taken into consideration. Boxes are all branded. and buyers may have their own names on for quantities of five gross free of charge; the Boxes do not then bear OUR BRAND.











A Sample Box containing one

Nos. 203, 205,206.

No. 207B. Boxwood Box, Draughtsman Small 208. Vegetable Ivory, 209. Nickel Plated Pencil, with Menthol at 214. Class Show B title, Giart Size
2146. Glass Show B title, Giart Size
216. Boxwood Boxes, Beer Bottle Shape,
Large Cone
217. Glass Show Bottle, as No. 214
(The best snd largest 6t/. Cone made.)
218. Menthol & Court Plaster in Nickel Cases

of above, 8/; by post 9/.

5 per cent. Discount for Cash with Order.

In ordering through Merchants and the Wholesale Trade, from whom our preparations may be had at above prices, please state distinctly "ACME **BRAND**" HOCKIN'S.

Special Quotations Large Quantities

MANUFACTURED BY

OCKIN,



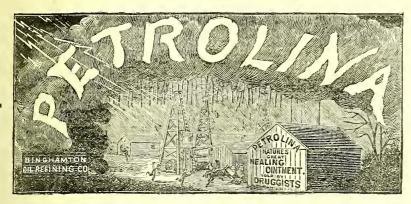


SQUARE, LONDON. W. DUKE STREET, MANCHESTER

THE ONLY PERFECT PARAFFINUM MOLLE B.P.

IS THE BINGHAMTON OIL REFINING CO'S.

Non-oxidizable, unchangeable, affected by neither time nor temperature.



115° to 120° M.P., No. 0 from 95°

Manufactured without the aid of Acids or Alkalies from Grude Petroleum only.

Casks of 1 cwt., Kegs of 1, $\frac{1}{2}$, and $\frac{1}{4}$ cwt., and patent self-opening Tins of 14, 5, and 1 lb.

A further reduction has been made in the price of "PETROLINA," which is now as cheap as any of the inferior imitations. Chemists will therefore consult their best interests by ordering only "PETROLINA." May be had of all wholesalers.

PRICE LISTS AND SAMPLES FREE ON APPLICATION TO-

E. A. DE PASS & CO., Sole Agents, 3 Coleman St., LONDON, E.C.

THE M(T
PROFIABLE LINE
INTHE MARKET.

"PEACH LOSSOM" SOAP
has all a appearance of
the usual Tablets at One-

thi the Price.

Now Vastly Improved in Quality.

'PEACH BLOSSOM'

Larger Tablets, Finer Perfume, and Most Elegant New Boxes and Wrappers.

Handsome, Highly Transparent, Delicately Perfumed, and Extremely Low in Price.

New Etyle of Wrappers and Boxes.

E. A. de PASS & CO.,

Sole Agents,
3 Coleman Street, E.C.

MATTSON RUBBER CO., OF NEW YORK.

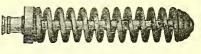
Manufeturers of HIGH-CLASS SYRINGES, ENEMAS, & SURGICAL RUBBER GOODS.

The "aside"
Syringe h the largest sale of anlow-priced

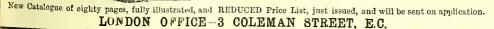
Enema the world.

Specialities in Fountain Syringes.

Mattson's Patent Vaginal Spray.



Mattson's Patent Powder
Projector for
the Treatment of
Catarrh, &c.



Messre E. A. de PASS & CO. undertake the shipment, from New York direct to any foreign port, of American Medicines, Drugs, and Druggists' Sundries. Quotations given f.o.b. New York or free London.

E. A DE PASS & CO., GENERAL AMERICAN COMMISSION MERCHANTS, Broad Street, NEW YOR & , and 3 Coleman Street, LONDON, E.C.

KEPLER SOLUTION.

The London Lancet, referring to the Kepler Soluton (May 22nd, 1886), reports:—"Pharmacologists and practal physicians have long desired to obtain a true solution of cod lier oil in malt, but the difficulties in the way of its accomplishmat were found to be so great that all attempts to manufacture sin a product were temporarily abandoned. The question Is, however, at last been solved. . . . This new preparationis known as the Kepler Solution of Cod Liver Oil in Malt. Its superiority as a therapeutic agent, especially in cases of wasting disease, is obvious.

The British Medical Fournal reports:—"The Kept Solution is a great advance on anything hitherto attempted n this direction. . . . The production of a solution of cod lier oil in malt is a great advance, and marks an epoch in the histy

of rational therapeutics."

Prof. Godwin Clayton states that his "observations ad results [detailed before the Society of Analysts] render it impssible for him to arrive at any other conclusion than that he Kepler Mixture of Cod Liver Oil in Malt Extract is not n Emulsion, but that its constituents are in a condition of me intimate admixture, viz., that of Solution."

If fat be in a molecular condition in the body, why may it not be so outside the body? The objections adduced against the Kepler Solution might be easily raid against other solutions. According to all known methods of determination, the cod er oil in the "Kepler Solution" is unequivocally dissolved. Those most competen to express a reliable scientific opinion, state positively that such is assuredly the Ge. When the article from which the last paragraph is taken was read before the Socty of Analysts, many distinguished scientific chemists were present, such as Prof. Due who agreed, in the discussion which followed, that the cod liver oil is dissolved in 10 Kepler Extract of Malt.

Every possibility of error has been taken into account, and the fact that the is dissolved is pronounced incontrovertible. No emulsion of cod liver oil (syrup and oil, 3) ever made is comparable in any way with the Kepler Solution of Cod Liver Oil in Mt.

Truly the Kepler Solution "is an ideal form for the administration of fai-

British Medical Journal.

Besides this, "It is the most palatable and easily digested of any form of od liver oil."—Medical Press and Circular.

The Kepler Solution and Kepler Malt Extract supplied to the Trade in bottles containing \(\frac{3}{4}\) lb. and \(\frac{1}{2}\) lb. at 2. and 38s. per doz., subject to usual discount. Retail prices 2s. 6d. and 4s. Supplied by all wholesale houses throughout the rid.

Snow Hill Buildings, LONDON, Burroughs, Wellcome Co..

Progress in Pharmacy.

CONDON

MARCH 17.

[1888.

PINOL. The pure essence or volatile oil distilled from the needle-like ills of the *Pinus Pumilio*, found growing in the perpetual six of the ALPS, is one of our latest novelties. It is distinguised from the common pine oils by superior medicinal and six tary properties, and hy its exquisite refreshing fragrance. It possesses remarkable antiseptic properties, lestroying sease-germs, and has been found most efficacious in the treat into flaryngological and pulmonary diseases and



Pinus Pumilio.

the treatment of gout and rheumatism the paths of E ract of Pinus Pumilio, with subsequent applications of pol, are considered hy many to be a cure. The paths of H nburg are now world-famous, and we hear that an institute of a similar character is shortly to be opened at Farnbough. The Burroughs Chlor-Ammon-Inhaler is used for in ling Pinol, 15s. and 24s. doz.

rom the n dle-like spills and tender shoots of the Pumilio line, has put the same density and appearance as treacle, texhales delightful fragrance, for the redolence of the redolence of the line. The extract contains decided medicinal properties, and is very xtensively used for Baths, Liniments, Ointments, and Plaste 9s. doz.

Baths.—The Pumilio is so soluble in water that the extract soon disliked. To prepare a pine hath, pour the water of the desire emperature into a bath of usual size, and empty into it a bile of Extract of Pumilio (Burroughs). A Pumilio that may us be taken several times a week, and is a most crateful restriction to the feehle and those in poor health. It is very freshing, and for anemic women, and those who the umatism, gout, lumhago, sciatica, or neuralgia.

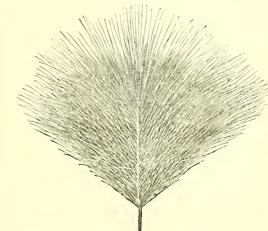
LANO NE—Lanoline is the purified fat obtained from heep's will, and is natural to the hair and skin, and is these at once. It is the best basis known for interest solves, &c. Of desirable consistence, it does not nelt belowoody heat, and does not "run" like ordinary ointents. It is perfectly he most intable conditions of the skin. It is perfectly the water and all medicaments, is preservable, lightly the water and all medicaments, is preservable, acious and adhesive, and perfectly bland and oothing. Lanoline has recently heen much improved; it is nuch light in colour and free from odour. We supply also an A ydrous Lanoline, 1 lh. 3s. 6d., 7 lbs. 3s. 3d.

LANOINE POMADE. — Hair anointed with this presents I shiny, greasy gloss, and does not stain the hat or

anything else that comes in contact with it, for Lanoline Pomade is absorbed at once. It soon makes the hair smooth, silken, and strong, and after employing it a little time the scalp becomes perfectly healthy and free from dandruff, 14s. doz.

LANOLINE TOILET SOAP.—Ordinary soaps often cause pimples, blotches, and sores on the face, and prevent eruptions already formed from healing. They remove the fat and dry the skin, so that this tissue becomes hard, inelastic, and rough, and loses its natural colour. Lanoline Toilet Soap is made with Lanoline. Lanoline, heing the natural fat of the skin, is acknowledged by dermatologists to he the very best preservative of this tissue, restoring its soft, pliable, and elastic nature, and healthful surface. The process of its manufacture precludes the possibility of adulteration, as with rosin, &c., and affords a most superior product, 8s. doz.

LANOLINE COLD CREAM.—For the toilet. This is emollient, protective, and healing. It supplies the skin with a "cream" natural to it, and is highly praised for abrasions, mucous patches, herpes, chapped hands, roughness and hardness, &c., 14s. doz.



STROPHANTHUS .-As the trade are well aware, we were the first to import and offer Strophanthus, and we have spared neither trouble nor expense to obtain supplies of prime qua-We have carefully selected the very hest ripe seed for our Tincture and Tabloids. By operating on 2 cwt. at a time, we are able to maintain a perfect uniformity of strength not otherwise possible. The economy effected hy a large production enables us to offer at lower price than it will cost chemists

to make in moderate quantities, even with the hest facilities. Strophanthus acts upon the heart alone in difficulties and embarrassments of the circulation, and does not aggravate matters by contracting the blood-vessels. The Tabloids are recommended as being the *safest* preparation made. Prices $-\frac{1}{2}$ oz. hottles, 4s. per doz.; 1-oz. bottles, 6s. per doz.; 1-lh. hottles, 6s. each. Tabloids—bottles of 100 at 18s. per doz.

1888.

SUPPLEMENT

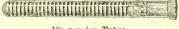


VOICE TABLOIDS. These very beautiful little discs, containing Potash, Borax, and Cocaine, arc now used by the leading singers and public speakers throughout the world. One dissolved in

the mouth will quickly remove huskiness or hoarseness, and give a clear silvery tone to the voice. See full list of compressed drugs or following pages (1s. and 2s. Packages).

HYPODERMIC TABLOIDS we now

prepare by an improved method; our



new machines cnable us to graduate the pressure sufficiently to insure cohesion, and yet leave the tabloids in a highly soluble condition. They dissolve readily in a few drops of water upon being crushed by the aid of the small glass mortar and pestle which we supply for the profession.

These Hypodermic Tabloids offer great advantages over the ordinary solutions, owing to their permanency, compactness, and the perfect accuracy which is attainable in treating large quantities of material at a time.

Practitioners can easily carry in an ordinary hypodermic case from six to twelve varieties of these tabloids, together with the syringe, mortar, and pestle.

Hypodermic Tabloids of Cocaine and other alkaloids usually employed in hypodermic medication have now almost universally superseded the old plan of solutions, which were liable to irritating and poisonous fungoid growths. The Lancet, after thoroughly testing them, declares that these tabloids "produce no irritation, and give the most satisfactory results."

THE HYPODERMIC POCKET CASES are described by a medical journal as a "powerful armoury" in fighting disease. Most valuable alkaloids are exhibited in exactly divided doses, and will dissolve immediately in a few drops of water. Greater exactness is obtained by the preparation of drugs in this form than would be possible by any other method. The small pocket cases in which they are supplied, with syringe, needles, mortar and pestle, &c., are now well known to the medical profession, most of whom are provided with them.



Vinaigrette style. crystal glass oval bots., 4s. 6d. per doz.

TABLOIDS OF COMPRESSED DRUGS .- Some of these Tabloids are intended for their local effect upon the throat, as Chlorate of Potash, &c., and are compressed very hard and dissolve very slowly, while some are for internal administration, as Quinine, Cathartic, etc., and are lightly compressed, and dissolve far more readily than pills, which are made, of course, with an excipient.

TABLOIDS OF COMPRESSED CHLORATE OF POTASH (Exact size.) Five grains in each. For

catarrh, weak voice, hoarseness, sore throat, laryngcal and bronchial affections, and

ulcerative and other diseases of the mucous membrane of the mouth.

The Medical Press and Circular says :- "On account of their very small size one may be easily retained beneath the tongue while using the voice. Chlorate of Potash is an agent of acknowlcdged value in diphtheritic



Beautifully graven white metal

sore throat, and inflammation of the mouth and throat induced by a depressed state of the system. It relieves hoarseness, and in many cases of fetid breath proves an efficient corrective."

A single Tablet placed in the mouth a few minutes before using the voice will remove any slight huskiness and irritation there may be, restore the normal secretions, and afford clearer and richer tones. Supplied in beautifully graven

white-metal boxes, with blue silk labels, 4s er dozen Chlor. Pot. and Borax, same style, with pin silk label 4s. per dozen.



QUININE TABLOIDS (1, 2, 3 & 5 gr.) .-- The abloids of Compressed Soluble Quinine are now prescrid by the leading physicians of Europe, in preference t any other form of the drug, in the treatment of fevers a all other cases in which Quinine is indicated. They diss e and act on the system quicker than ordinary pills or p ders, the are easier to swallow, and can be dispensed by emists a the same price that they charge for powders. 1 ill prices 1 gr. 36 for 1s., 100 for 1s. 9d.; 2 gr. 24 for 1s., 1(or 2. 9d. 3 gr. 24 for 1s. 6d., 100 for 3s. 9d.; 5 gr. 24 for s., 100 for

TABLOIDS OF COMPRESSED TRI (TRINE

"Tri-nitrine is the new name for nitro-gl rine, the
general adoption of which has been advocated Dujadin Beaumetz, Huchard, and other Continental ob vers. It occurrence in prescriptions is less likely to alarm susceptions bilities of delicate, nervous, or highly-strung pati s than the more commonly employed term. The tabloids of impressed tri-nitrine are made with sugar of milk, which idmirably delicated for the sugar of milk, which idmirably the sugar of the sugar of milk, which idmirably the sugar of milk, whic adapted for the purpose, and dissolves much r e rapidly than any of the ordinarily employed excipient. We have made trial of these new tabloids, and find that ay answer admirably in cases of angina-pectoris, giving p pot relief to the paroxysms of pain. The compound inition tabloids, containing, in addition to nitro-glyceri nitrite of amyl, menthol, and capsicum, constitute a valua prepara tion, and will in all probability speedily replace officinal formula."—LANCET, April 24, 1886.

In full doscs Tri-nitrine accelerates the he's action dilates the arterioles, flushes the face, and pre ces head ache. Too large a dose may cause languor, nat , pain in the stomach, and occasionally even temporary 1005clour

The Tabloids of Compressed Tri-nitrine are pplied in bots. of 25 and 100 at 7s. and 18s. doz.

COCAINE IN TOOTHACHE.—While Coca has been used in every department of surgery, its use in de il surgery has not yet become general, and incredulity abe is on the part of some as to its easily demonstrable at h. Many reports have been made where the most sever obtacle was treated by introducing into the dental cavit. Tablod, dampened, on a piece of cotton. By painting Come on the gums the sensibility is suspended, and the part is beganlessly lanced. Some dentists instruct their parts suffering for suffering from acute pain in the roots of a toolt place at the side of the jaw a Cocaine Tabloid enclosed in time of absorbent cotton. By injecting it into the given a cocaine a tooth, extraction may be performed with a particle of pain. 12e per der tabloid enclosed in time and a particle of pain. a particle of pain. 12s. per doz. tubes.

THE TABLOIDS OF POTASSIUM BICAL BONATE (5 gr.) and the SODIUM BICAL ON THE (5 gr.) are far except to the solid manual statement of the solid manual statemen (5 gr.) are far easier to take than solutions or pi and may

vallowed wiout the taste of the alkali being perceived.

ST TABI IDS, for preparing Fehling's Solutions he Rapid d Accurate Estimation of Sugar in the e of Patic s.—These Compressed Chemical Tabloids sent the soi constituents of the well-known test solution hling, which is that most frequently employed. By the four very sple and complete apparatus and appliances, ed and confructed especially for the purpose, we are ed to seci a degree of precision and accuracy in preparatis unattainable by ordinary means. The trages in stability, saving of time, and calculations prious, and fter a single trial the Tabloids will recomthemselve it once to physicians, chemists, and others sted in thanalysis of urine, syrup, &c. Supplied in ts, comple 18s. per doz.



ARCH 17, 388.

THE BURROUGHS CHLORIDE OF AMMO-NIUM INHALER (Vereker's Patent), by means of which a perfectly neutral vapour of Chloride of Ammonium may be brought into immediate contact with the air passages of the throat, and afford quick relief in cases of bronchial and catarrhal affections. This has the advantage over ordinary Chloride of Ammonium Inhalers in that the

r is perfect neutral and causes no irritation whatever. Terebeneand other medications may be employed

chis inhale 7s. 6d. each.

out from Franks, Esq., M.D., Dublin University,
S.I., Suron to the Adelaide and Throat and Ear tals, &c.:

is the be Inhaler I have ever used, and I think I have all the fferent Chloride of Ammonium Inhalers

Medical ress and Circular says: - "The Burroughs er is an i enious and convenient device for inhaling de of Arionium fumes; by its use the Chloride of nium is bught into more intimate contact with the s surfact of the passages of the nose and throat than other fon of inhaler. It should be used by all who ny prediosition to catarrh, congestion of the lungs, monary tubles."

E FAI THILD DIGESTIVE ENZYMES.—No e have e introduced has met with such immediate contaneo appreciation. Imitators have, as they are o do, folwed in our wake with inferior products, enring to ap profit from the reputation of our goods. duced p es place these, the best pancreatic and pepsin ations i he market, at a price lower than others of

nine (Fractum Pancreatis, Fairchild) is a dry r, containg in the most active and concentrated form Enzym of the Pancreas, viz, Trypsin, Amylopsin, in, and e Rennet Ferment. It will digest all kinds d. Fiv grains, with a little soda, will sufficiently ise a pi of milk in a few minutes; 30 grains, with a oda, wi peptonise 4 oz. of beef, producing a conted, nut ious, and delicious beef-tea. 4 oz. and 1 oz. d 60s. 1 doz. Zymine Tabloids, supplied in bottles and 100, 18s. and 48s. doz.



Zymine Peptonising Powders (Fairchild) in glass

(one be peptonises a pint of milk in twenty is is the nost convenient form for preparing peptonised truels, lies, custards, blanc-manges, etc. The advanf these owders are that, when everything is taken into tt, they imply stand alone in the world of ferments for ising ilk for invalids, dyspeptics, the aged, and speing of Fairchild's discovery of Zymine, Dr. g said "I feel satisfied that the question of infant is soid." 18s. per doz. boxes.

PEPSIN IN SCALES (FAIRCHILD).—This is the first and only Pepsin ever offered absolutely free from Starch, Milk, Sugar, Acids, Artificial Peptone, or any extraneous substance whatever. One grain of Pepsin (Fairchild) in Scales or Powder will digest 1,000 grains of albumen in six hours. By experience and constant experiment we have steadily refined and improved this product, and now present the Peptic Ferment in a state of marvellous activity, isolated from all reagents or impurities, and of demonstrated uniformity. We do not attempt to secure profit or cheapness of product by treating the entire stomach, and thus (or by any other expedieut) obtaining the admixture of a Peptone or any albuminoid that is separable from the Peptic Ferment.

Pepsin (Fairchild) supplied in the form of scales for making solutions and general manufacturing purposes, in the form of powder for dispensing, and in tabloids (1 grain each) for easy administration to fastidious patients. The Fairchild Pepsin is rapidly superseding the ordinary pepsins, many of which are utterly worthless. Fairchild's Pepsin is no more expensive than most of the common pepsins, though it possesses many times the strength and activity. $\frac{1}{4}$ -oz. and 1-oz. bots. at 20s.

THE KEPLER EXTRACT OF MALT AND KEPLER SOLUTION have both gained continually in favour with the medical profession and the public, and are still preferred to any other similar products. Throughout the world we have been accorded the credit of our discovery of a process for dissolving Cod-liver Oil in Kepler Malt, and the importance of the discovery is fully recognised.

The Lancet (London) reports:—"Kepler's is the best

known, and in this country the largest used Extract of Malt. It is as distinct an advance in therapeutics as was the introduction of ccd-liver oil. It is one of our best remedies for atonic dyspepsia, and is undoubtedly useful in consumption

and other wasting diseases."

The London Medical Record, January 1885, says:-"Kepler Extract of Malt is undoubtedly the best, the richest in diastase, and the most largely used. We have witnessed the process of manufacture, have tested it, and are satisfied that it is not only unsurpassed but unequalled. It is the

Extract of Malt which every physician prescribes."

The Medical Press and Circular says:—"The Kepler Extract of Malt is very delicious to the taste, and has been found by analysis to be exceedingly rich in diastase, and, consequently, is a valuable digestive agent. The Kepler Malt, combined with cod-liver oil, is the most palatable and easily digested of any form we have yet seen for administering cod-liver oil." 22s. and 38s. doz.

THE KEPLER COD-LIVER OIL. - This is the virgin drippings from the choicest selections of livers of freshly-caught, healthy, Norwegian cod—the true species (Gadus Morrhuæ). This beautiful cod-liver oil is clarified and prepared upon the shores of Norway. It is expressed by a new and original process, the oil being kept meanwhile cold. All rancid and unsavoury principles are eliminated, and the flavour is so extremely delicate that this oil may be easily administered to patients who refuse to take the ordinary preparations of cod-liver oil in the market. 16s. and 24s. doz.

HYDROBROMATE (GRANULAR CAFFEINE EFFERVESCENT, BISHOP).—This new preparation is in many cases preferred by the profession to the Citrate of Caffeine also made by Mr. Bishop. Both of these admirable preparations are now every day prescribed in headache and neuralgia. 20s. doz.

Bishop's Granular Effervescent Extract of Nux Vomica is a most agreeable and efficient preparation, and is gaining in

popularity.

ANTIPYRIN TABLOIDS.—This new antifebrifuge is a chinoline derivative, which has now been before the profession for some little time. It is claimed by high authorities to increase arterial tension, retard the pulse, the rhythm being regular, to quicken somewhat the respiration, the type remaining uniform, and to act on the cardiac nerve apparatus. It is said to increase reflex action, and diminish even the normal temperature from 3° to 2° Fahr.—the depression being the more marked the shorter the intervals between the doses. Antipyrin is most active in febrile conditions, and "as a rule fairly large doses may be well borne by little children for one or two days." Electro-motor excitability is increased during the first day of administration of the drug, thus stimulating the musculo motor centre.

Antipyrin is being much used to reduce the temperature in consumption, pneumonia, crysipelas, typhoid and hectic fevers, and ague; it is said to be most suitable for children, and to relieve the pain of rheumatism. 25 and 100 bots. 5-gr. tabloids at 28s. and 80s. per doz.

BEEF AND IRON WINE (BURROUGHS).-This is a highly nutritive tonic, especially desirable for convales-cents and for invalids suffering from malnutrition and general exhaustion.

Each half fluid ounce or tablespoonful represents the tonic and stimulant value of 1 oz. of good fresh beef, with 1 gr. of iron, in a pure medicinal wine. 22s. and 42s per doz.

AND IRON WINE, WITH QUININE (BURROUGHS).—Each half fluid ounce or tablespoonful contains the nutritive value of 1 oz. of good fresh beef, 1 gr. of Citrate of Iron, and $\frac{1}{2}$ gr. of Sulphate of Quinine, in a pure medicinal wine.

This preparation combines, in an agreeable form, all of the nutritive and strengthening tonic properties of our Beef and Iron Wine, with the well-known qualities of Quinine. 27s. and 50s. doz.



The Witch Hazel Plant.

HAZELINE. - This drug is highly commended by the British Medical Association's Committee on Therapeutics. Hazeline, being prepared from the fresh green twigs, contains all the valuable volatile principles of the plant Witch Hazel, and is much more uniform and reliable in its action than are the tinctures, fluid extracts, &c., prepared from the dried bark. $\frac{1}{4}$ and 1 lb., 14s. and 42s.

PURE TEREBENE (BURROUGHS).—The immediate recognition of the value of this agent in winter cough has created a very large demand, and cheap terebenes, possessing irritating and objectionable qualities, have been offered, and in many instances have caused great disappoint-

ment to practitioners. The Pure Terebene (Burroughs) which we have introduced is free from all irritating properties and contamination. 1 oz., 2 oz. and 8 oz. at 8s. 6d., 12s., and 24s. per doz

ELIXOIDS.—Pleasant Form of Unpleasant Drugs,-Elixoids are among the most elegant and palatable of modern pharmaceutical preparations. In them the taste of the medicines, which is often of a disagreeable character, is masked to a remarkable degree, so that drugs which are usually very difficult of administration are in this form readily taken by delicate patients.

VALOIDS (EQUIVALENT LIQUID OR FLUID EXTRACTS, OF DEFINITE STANDARD STRENGTH).—Each pound of valoid represents the medicinal *value* of 1 lb. of pure drug, inclusive of *alkaloid*, *resinoid*, or other active principles. The drugs of alkaloid, resinoid, or other active principles. The drugs are first assayed, tested, or critically examined, those of inferior quality or deficient in amount of active principles being rejected, and those only employed which are of full standard strength. Our process of cold repercolation completely exhausts the drug of all medicinal properties, and the menstruum employed is such as to hold them permanently in solution and preserve them indefinitely in any climate. Valoids are the most convenient and reliable form of drug for the preparation of Tinctures, Syrups, Decoctions, Infusions, etc. Upon the labels of the 1-lb. bottles are given formulæ for the immediate manufacture of officinal and other standard preparations; in every case the Valoid may be taken as representing the exact equivalent weight of the

PAPER FIBRE LINT.—This is ma from pure fibre; it is highly absorbent, and, when pplied to be surfaces, filters the air completely; it m be readly a rated with an antiseptic solution. 58 1

ABSORBENT COPTON (LAWT().—For sand Dental Purposes.—" Is beautifully so really about and quite free from chemicals."-THE L! ET.

MEDICINE-CHESTS AND PO ABLE TO LOIDS OF COMPRESSED DRUGS I Traveller plorers, Missionaries, Army and Ship Sur ns, and fam



We have made a special study of the s ect of I to Medicines, and our efforts have been re ded by the proval of everyone we have supplied.

STANLEY'S MEDICINE EST.

From " Pall Mall Ga:et

" Lond January 2 111 "Apropos of Mr. H. M. Stauley's expedition, the & than Commune says :- 'It is worth while to remark upon his dul preparate regards details. When all his outfit has been fully : lled, it will be where it is that Mr. Stanley is so successful. Th ther day at shown the medicine-chests which have been prepar or him by the known firm of Burroughs, Wellcome & Co., Snow E Everyt of is likely to be of use in fighting the discases of a t cal country in tained in these chests, and along with each is a pa let, cutted Traveller's Medical Guide," and marked "H. M. Stan 'This purple covered with flexible leather, and is, therefore, there is protected

at the same time it is easily carried in the pocket.' "We notice the well-known American firm London, Ma Burroughs, Wellcome & Co., have been entrusted. J. M. Maney, and the carrying out of the entire articles of this wonde and the entire production reflects credit on American lustry."



EXTRACT FROM "THE CONGO FIE STATI

By Henry M. Stanley.

"If you are in absolute need of a tonic apply to the octor, or to simple rule of never during daylight taking more than a of any la or wine. Your best tonic would be 2 grains of quining the compression of Tablets' by Burroughs & Wellcome, of Snow Hill These chemists have prepared drugs which I can con it local res mend as adapted for tropical regions. They have pred i small does tablets' of nearly every medicine that may be required which any taken without creating nausca, a valuable desideratum who have suffered from the foul nauseating smell of monly prepared by descriptions. monly prepared by druggists. If thirsty, at a station actory, prop

sherbet. marching, drop a compressed 'Tablet' of wder as prared by these chemists in your cup of water."

our medicin ure and well prepared. Messrs. Burroughs & vill equip yo with tropic medicines in chests or cases, with ast you one nth or ten years. They have sought the best ice, and rev seem disposed to study the special needs of Central, Nthern, or Southern African traveller, soldier, missionary, have informed them of a few diseases such as under my servation, and they have prepared such medige been trieduring the last seventeen years of my African

"REMIGTON" PHARMACEUTICAL nvented b rofessor J. P. Remington, Philadelphia Pharmacy J.S.A.). A great improvement over any levice, by s greatly increased condensing power ity of actic together with its simplicity, economy, ability for neral laboratory work.



n Tipued pper, 71.; price in Nickel-plate, 91.; ices for lar r Stills. Subject to usual discount. -A Copper lire Basket, for holding Herbs, supplied Still, price s.

Il shown in he cut is the NEW FORM, the Still body over three gallons; the CONDENSER has seven abes surro ded with the cold water, presenting ous cooling urface, and thus securing most rapid ion. The d water is introduced by a rubber tube drant or teket of water placed higher than the carried off; it becomes warmed by another tube ted by the rrows. By THE SYPHON ARRANGE-OWN IN TO CUT, it is possible to feed the Still servoir whillistillation is in progress, thus a threeill may be sed, where, otherwise, a much larger 1 be necess 7

Il may be into a kettle partly filled with water, used as a v TER BATH, or a shallow dish with flat h accompars the Still may be placed between the ring bands and clamped securely.

CODMA & SHURTLEFF COMPLETE ATOMIZR, for treatment of diseases of the d lungs by eans of atomized Pinol, Pure Terebene

hs), and ot r medications.



. The Comete Steam Atomizer. For Inhalation,

me complet is used in connection with this appah particula reference to the quality of its perform-under no ciamstances does it throw out little jets

or Tartarie A or Cream of Tartar answers same purpose.

of hot water to frighten or scald the patient. The word is also appropriate when used to describe the apparatus itself, as it is the result of much care in arrangement, and of expense in the machinery employed for its construction. On account of its convenience, durability, portability, compactness, and cheapness (in the best sense of the word), we think it adapted to come into almost universal use by physicians for their patients, and by patients at their homes. 15a, 22/6 each; 15b, 26/3 each; 15c, 36/- each. Subject to

usual discount.

BURROUGHS, WELCOME & CO.'S DRUG MILL. Constructed on an improved principle. Cutters removable for inspection or cleaning.

This Mill can be regulated to grind to any degree of fineness or coarseness required, and by the mere turning of a thumb screw can be opened and the cutters removed in a



The form of the Cutters is designed so as to crush and reduce to powder almost any pulverisable substance effectually and quickly, at the same time that the cutting edge is never destroyed, thus saving the expense of recutting, incident to the ordinary Mill.

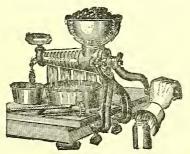
The cutters always keep their edge, and never require re-

toothing; if broken they can be replaced at a trifling cost.
In this Mill ALONE there is no danger or loss resulting from grinding any number of different substances in succession, because between each operation the Mill can be opened, the cutters taken out, cleaned, and replaced with the greatest

Professor Maisch, Philadelphia Col. Pharmacy, U.S.A., says:-"The best Mill that has been devised. One of the prominent advantages is the facility with which the internal

working parts can be viewed by simply turning one screw." PRICES.—Plain (3a), 36s; (4a), 54s; $(4\frac{1}{2}a)$, 90s. Ornamented (3a), 45s.; (4a), 65s.; $(4\frac{1}{2}a)$, 100s. Subject to usual

BURROUGHS, WELCOME & CO.'S TINCTURE PRESS, specially adapted for Coarse and Fibrous Drugs. The principle upon which this Press operates is, that the drug is acted upon in a continuous thin layer, which is forced forward by each revolution of the screw into smaller and smaller space, the leverage yielding a force so powerful as to extract almost the entire moisture, delivering the residue of suitable drugs with almost crisp dryness, and, as experience has shown, it saves a greater amount of Tincture (very important in the case of Tincture of Opium and other expensive drugs) than even the most powerful Hydraulic Press. So thorough is its action in this respect that the "Chemists' Journal" has humorously remarked



of it that "it will almost squeeze blood out of a turnip." One firm informs us that they have saved at least 201, more in three months, by the use of this Press, than they could secure by using any other. The working of this Press being continuous, either small or very large quantities may be operated upon at one time, and much more rapidly than in any other form of apparatus.

The fact that drugs require handling but once, that the use of press cloths is done away with, and that the operation is continuous, shows a great advantage in this Press over any

CHARLES SYMES, Ph.D., says: -"This is an entirely new departure, inasmuch as in the ordinary press either a lever or screw operates to produce the pressure, whereas in this ingenious arrangement the screw is itself the press. It has been used by our firm for pressing a variety of substances. For the marc of tincture of opium, orange peel, cardamoms, hops, squills, artichoke, lobelia, and such like substances, nothing better could be desired for t purpose. The tinuous layer operated on is much the crthan in the nary press, and the force applied is uni m and consider When commencing to feed the press t regulating som the end should be turned well up, so a lo leave the widely open as possible. As soon as the refuse begins to through, turn down the screw so as to fuce the size of apciture, and recover the largest amour f tincture conwith being able to work the handle w moderate end It is here that experience and judgme come into plan determine the success of the operation - Chemistan

Price 13s. each, subject to usual discut.

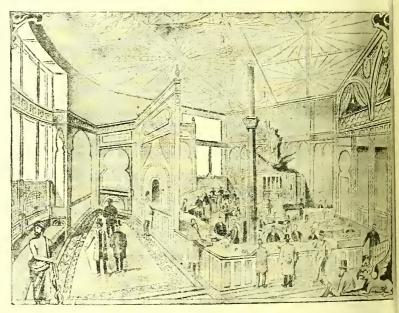
MESSRS. BURROUGHS, WELLCOME & CO. AND THEIR BUSINESS.

[Reprint from The Chemist and Druggist, January 28, 1888.]

A MONG the exponents of modern pharmacy no firm in At this or any other country has acquired a more world-wide reputation than the one which, under the style of Burroughs, Wellcome & Co., has become familiar to every reader of these pages within the last ten years. We have a number of old-fashioned friends (who will, we hope, be ever with us) to whom the new-fangled notions of this corner of the nineteenth century are an abomination and a terror, and to whom these pharmaceutical strivings after novelty and perfection in the manipulation of the raw material of the

to say that in carrying out their plans ley have act the utmost loyalty to their pharmaceu al colleagues have found it possible to create an entive new class of ness in what seemed to be a sufficientl prowded trade they have brought this about by meth and manner ciently novel to be worthy of record in ese pages.

Mr. S. M. Burroughs, who is a grad c of the Col Pharmacy of Philadelphia, came to Loon in 1879 a all to place some of the goods mar actured by M Wyeth Bros., of Philadelphia, among Br h phermarks soon extended his operations in other ections, all st pharmaceutical, and when joined in 18 by Mr. II. 8 come, who was also a graduate of same olle pharmacy, the business established he grown into o



INTERIOR, BURROUGHS, WELLCOME & CO.'S OFFICES.

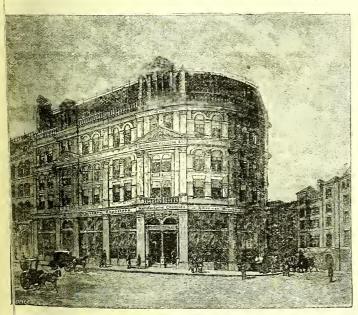
medical armoury have an odour of anything but scientific sanctity. To them the introduction of a new medicine or a new form of an old medicine is a solemn event which should only be undertaken with due regard to all medical and pharmaceutical proprieties, as they understand them. Progress by means of research laboratories or properly incorporated societies, and after methodical discussion by recognised authorities, is in their view the only genuine article, and the intervention of commercial enterprise, or of Frenchmen, Germans, or Americans, seems to them to be an uncalled-for interference with the natural order of things.

But these gentleman speak too late. Enterprise in pharmacy is the order of the day. The new generation of medical practitioners are eager for all the aid that skilled pharmacy can give them, and London is the market in which the best men win, regardless of nationality. Messrs. Burroughs, Wellcome & Co., since their establishment here, have set themselves not only to meet, but rather to anticipate, the demands of the medical profession, and it is fair

considerable importance. The partne were both men with an astonishing amount of en 7, thorough macists, clearly apprehending the wants medical medica with the means and willingness to supp hese. The up agencies from some of the best 2 rican from introduced specialities of their own.
before medical men and pharmacists to the work of th lavish style, but the firm never sought to luence the except through the regular professional mels. The won the confidence of a large number (loctors and we suppose, has contributed in no incor the remarkable development of their bus 38. We down some time ago their large works at W Isworth, who considered to the state of the st considerable part of the space occupied sed for the paration and packing of the Kepler Ext tof Mall, product has been for some years owned a by Messrs. Burroughs, Wellcome & Co. viously alluded to the artistic beauty which the posing offices at the correct Talk and all added age. posing offices at the corner of Holborn aduct are

ed. These e nnique in the business of pharmacy.
deserve a ore detailed description.

ing is con ucted of red brick with stone facings pillars being Corinthian capitals. The entranee e is between pillars of Peterhead granite, with ze and gery elaborately carved. So far the bears thimpression of the art-revival which much to ange for the better the appearance of ises durir late years; but it is only when we ice that weet an idea of how much more fully has influe ed American art. The internal arwere all digned by Mr. Wellcome, and executed rection of Dr. Christopher Dresser, the eminent r of Sutt, by English workmen. The wood merican Inut. The floor of the vestibule is saic work ith pictorial insertions representing and Indnsy. The vestibule is very wide-too I, for an trance to an office—but this has designer throw across it an imposing screen dwalnut od, with a door at the right-hand creen is fed in with bevelled plate glass, the arly treat, and its furnishings are made of pper. Il windows, of which there are four, three want wood screens, quaintly carved on t, and corosed above of intricate Moorish or which harmonise beautifully with the dark unpolished walnut. The office furniture, chiefly consisting of writing-tables and a large inquiry table, are uniform in design with the screen and with the chairs and settees, which are upholstered in alligator hide; they form excellent specimens of art furniture. The gangway is controlled by a ponderous gate of hammered copper, a material which harmonises so well with the wood-work that it is also used for paperweights, twine boxes, and other office utensils. The whole appearance of the office is rich and artistic. It strikes one that it has been fitted regardless of cost, but there is not a pennyworth about it, even the statue of Liberty (modelled, we are told, by Bertholdi's own hand), nor the American eagle standing on the safe, which could be spared. Below the office are two basement floors. The lower one is used partly as an engine room, the engine providing power for the "lifts" and machinery of the printing department, and partly as a carpenters and mechanics' shop. The floor over this is occupied as a packing-room for the home trade, and affords space for a dozen packers to work in. These and other floors are kept thoroughly aired by means of a Blackman's air-propeller, which is connected with an air-shaft passing through the whole building. All the floors are connected by means of a spiral iron staircase, and a "lift" for heavy goods. Ascending the staircase



W HILL BU INGS: BURROUGHS, WELLCOME & CO.'S OFFICES AND WAREHOUSES, OCCUPYING SEVEN FLOORS IN ALL.

e-work. e centre of each screen is filled plate of a name copper, bearing the name firm's spellities. Everything about the exulding has solidity which seems to say, "We and this is o less apparent in the interior.

ion show he artistic arrangement of the an it can it described in words. The premises, mark, are the form of a half circle, but the ess of this orm is counteracted by a screen galleries, nich divides it into two parts, the occupied a general office, accommodating half of ware ladies. But there is little me about to apartment; there is neither the gany nor deed, for the presence of a huge American be opened to a set lour each morning, and sing and sing the office would not impress made of walnut-wood, with ge relieved by carving in straw-plait style. Of it is fined into a book-case for bound odical, medal, and pharmaceutical literature.

we first reach the half-moon gallery, which we find utilised as a room for lady-clerks, who read and write stenography and work type-writers with singular rapidity. The first floor is divided into three apartments, which are used by the principals and their amanuenses. The rooms are en suite: the first of them is fitted up as a library and writing-room, the furniture being in richly-carved English oak; the fire-place has an open hearth, and a very old-fashioned appearance is given to it by the "grate," consisting of an antique metal basket suspended from a erane. The overmantel is made of oak relieved with small mirror insertions on bevelled plate-glass. In this room is placed for the use of employés after business hours a magnificent grand pianoforte, and near by is an American organ. Mr. Sudlow, the general manager, is an aecomplished musician, and under his guidance a good deal of excellent harmony is produced. The next room is used by Mr. Burroughs, and is triangular in shape. There is little pretension in the furnishing of this room; an ordinary writing-cabinet stands in one corner, and beside it a revolving book-stand containing the most modern medical and pharmaceutical text and reference books, such as Ringer's "Therapeutics," Lauder Brunton's "Materia Medica and Therapeutics," Kirke's "Physiology," Remington's "Phar-

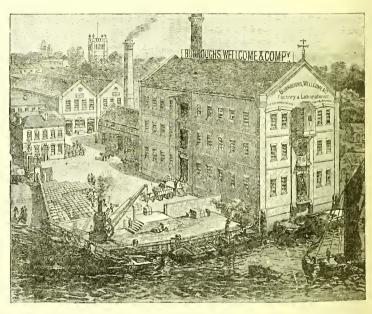
macy," &c., the authors of which by their writings assist in the compilation of the attractive and instructive advertisements of the firm. The presence of a chemical test cabinet in this room shows that experimentation is a part of the work done in it. The third room of the suite is used by Mr. Wellcome, and is furnished as a library, although hunting trophies, works of art from countries visited by the occupant, a striking statuette of Henry Ward Beecher, and a varied selection of general literature, give it less the look of a commercial room and more the appearance of a bachelor's den. The decoration of this suite of rooms and their furnishings are of a highly artistic character, yet quiet in tone. The second floor is occupied as a stockroom, as is also the floor above it. All the stock is kept in enclosed cupboards, which occupy the whole of the floor space, narrow passages

running between them. The stock, consisting as it does principally of tabloids, is not of a heavy character, and is

replenished every day from the factory, where it is sent out ready packed in boxes for distribution. The work in the

social reforms. His extraordinary fluency of language, and the quaint and original forms clothes his thoughts and beliefs, make his speece versation peculiarly attractive. Mr. Wellcome laterature as well as in commercial avoids mixing in politics, and, though progressives of a Conservative tendency. He holds the Royal Humane Society, awarded to him years ago for the gallant rescue of a young lady locks of the Thames. In literary and artistic Wellcome is always popular. He is a member Club of New York, and is the author of the yof Melakahtla" and various papers. He has entertain Stanley and other distinguished citizens of bot During the past few weeks he has been actively terested in the search respecting the disappearance and, as the murder of his friend, Mr. Archibald McNeil

Messrs. Burroughs, Wellcome & Co. and the staff work together on terms of cordial friendship, the latt sharing by



BURROUGHS, WELLCOME & CO.'S FACTORY AND LABORATORIES, OCCUPYING SIX BUILDINGS AND RIVER WHARF.

city premises consists chiefly of filling city and home orders, export orders being executed at the factory. The top floor is occupied by a staff of seven printers and compositors, who execute a large part of the printing work required by the firm, such as labels, handbills, &c.

Parallel with their business success, and not altogether unassociated with it, Messrs. Burroughs & Wellcome have won a social reputation of a notable character. In their Holborn Viaduet parlours, or at their private receptions, are to be met from time to time many of the distinguished Americans who visit this country. Outside his business Mr. Burroughs is an ardent supporter of the Anti-Poverty League founded by Mr. Henry George, and he is often to be found in unexpected quarters of London assisting in the promotion of

a system of bonuses in the prosperity of the ing to their system a definite and uniform per profits is divided every year among all the exportion to the salary of each. The partner travelled extensively, and between them have troduced their goods to pharmacists and doctoof the civilised world. Their special representatives and the manufactures and Messrs. Burroughs, Wellcome & Co. have been recognised in all the colonies and in most for Their general manager, Mr. Sudlow, and characteristics of the firm.—Reprint from The Chemist Jan. 28, 1888.

SPECIAL TO MERCHANTS AND SHIPPERS.

Being desirous of introducing our goods into foreign markets where they are not already ell known, we beg to say that we shall be happy to correspond with Merchants and Shippers for to-co-operating with them. We call special attention to our "New Physician's Prescription Della most useful to Pharmacists. We will supply one gratis to customers who take an interest in our purchase them in fair quantities.

Yours faithfully,

BURROUGHS, WELLCOM & CO.

HIGIEST AWARD AT AMERICAN EXHIBITION, LONDON. SILVER MEDAL (1st Prize), NEWCASTLE EXHIBITION. BEIDES MANY AWARDS AT PREVIOUS EXHIBITIONS.

AITICLES WHICH PAY TO INTRODUCE

Because bey are of the very best quality, and are put up most attractively, special samples and circulars being supplied for distribution.



The large demand in Great Britain for Colgate's Cashmere Bouquet Soap which has arisen in a very short time is the more remarkable because it has been created solely through the drug trade, without any newspaper advertisements.

The quality of the Soap, its handsome appearance and delightful perfume, make it sell on sight, while the distribution of the samples brings the customers promptly to the chemists who send them out.

See letter, "The Bright Side," in THE CHEMIST AND DRUGGIST, Nov. 5, 1887, p. 590; also Nov. 12, 1887, pp. 611 and 624.

Note opinion of THE CHEMIST AND DRUGGIST, Sept. 17, 1887.

A New JOAP.—The soap trade of chemists has greatly diminished, and has almost vanished so far as the lower alities ar concerned. The only chance for maintaining the returns from this department is to place novelties of high-class haracter before customers, and we should think that there will be considerable satisfaction in introducing a Cashmo bouquet soap made by Messrs. Colgate & Co., of New York. This is a cream-coloured soap in oval plets; it iremarkably pure and high-scented, and is put up in neat half-dozen boxes, with several elegant and artistic ow-cards. The agents, Messrs. Burroughs, Wellcome & Co., inform us that a liberal supply of sample tablets (one-fourth pregular s) are presented to the retailer, so that sales may be facilitated. It is the favourite soap in the "States."

THOUGH NOT A CHEAP SOAP,

dered, Colgate's Cashmere Bouquet Soap is the best value in the market. It is made from a special stock which is not employed by any other soap maker in the world.

SAMPLES-SPECIAL OFFER.

Until futher notice, with each dozen of Colgate's Cashmere Bouquet Soap ordered of us, or through the loss of the ses, we will supply 1 doz. samples for free distribution if a request for same be made on order. e sample are one-fourth the size of the regular soap and are much appreciated by all who receive them. With a corders we will supply special circulars to accompany samples bearing chemist's name and lress only Colgate's Cashmere Bouquet Soap has the largest sale of any superfine toilet soap.

Price, retail, 1s. 3d.; per dozen, 10s.; per gross, 110s. nett.

OR ER AT ONCE.

IT WILL PAY YOU TO DO SO



ATE & GOMPAN

COLGATE'S

CASHMERE BOUQUET PERFUME

This exquisite odour, like that of the soap, is as distinctive as it is delicate and lasting. It is exceeding popular with the élite of society wherever it becomes known.

Prices: 1 oz., 2s. 6d. retail; 22s. doz.; 21s. 3d. in gross lots. 2 oz., 4s. retail; 30s. 9d. doz.; 29s. 7d. ,, ,

Also supplied in bond at special rates.

DLGATE & CO., 67 HOLBORN VIADUCT, LONDON, E.C.

send, on receipt of business card, or when ordering any of our goods, a handsome Transparent Show Card for display.

TABLODS. ANTIPYRIN &

SOLD BY ALL WHOLESALE DRUGGISTS. AT REDUCED PRICES.

3/5 per oz., Crystals; Tabloids, 5/10 per 100; Bottles of 25, 20/- per doz.

The New Analgesic, Febrifuge, and Hæmostatic.

Antipyrin appears to be in a measure a substitute for morphine, such as has not been heretofore available. It has been given with a ted some most painful affections, and without disagreeable after-affects. One of the most troublesome of complaints is dysmenorm, yet in the affection it has been given with perfect satisfaction. Even in biliary and renal colie it has stopped the pain, as it has also in unique and renal colie it has stopped to be pain, as it has also in unique and renal colie it has stopped to be pain, as it has also in unique and renal colie it has stopped to be pain, as it has also in unique and renal colie it has stopped to be pain, as it has also in unique and renal colie it has stopped to be pain, as it has also in unique and renal colie it has stopped to be pain, as it has also in unique and renal collection. angina pectoris. Antipyrin is so well known as an efficient and reliable febrifuge—though not antiperiodie—that there are now very few modern pl plant who do

not use it more or less extensively.

Antipyrin seems to have some just claim to be considered as a homostatic, as it has controlled some very obstinate cases of homos ge, so have

menorrhagia, harreoptysis, epistoxis, etc.

As an anti rheumatic, Antipyrin has in some cases far surpassed the salicylates in the benefits it conferred.

In asthma, dyspnæa, and sea-siekness it has been found benefic al.

The Tabloids are a beautiful preparation, answering every purpose desired. Antipyrin Crystals, 3,5 per oz.; Tabloids, in bottles 20/- and 70/- per doz., subject to usual discount. Retail prices, 2/6 and 7/6.

BURROUGHS, WELLCOME HILL BUILDINGS, LONDA, E.C. CO., SNOW æ

The only Oil in the World guarante as made solely from perfectly fresh Livers, and the ore sweet and pleasant to taste and smell. Guar tood no congealable, and not liable to repeat.

ICEBERG BRANI

In bottles only, to retail at 1s., 2s., 3s. 6 & 6s. 6d.

Norwegian Oil in bulk, supplied in Original Barrels or in Winchesters, at prices according to ality and quantity, to retail under Chemist's own name.

COLLINGWOOD, 101 Leadenhall Street, ondon, 19 Dawson Street, Dublin.

A. S. LASCELLES & CO., 108 Broad Street, New York.

JOHN EVANS, 49 Dawson Street, Dublin.



Is Nature's own remedy, made from roots gathered from the forests of hy which it is made was obtained by a half-breed from the Creek Indians certain portion of Georgia, which was communicated to one of the early settle and that formula has been handed down to the present day. The cut represents the me lof man ture 20 years ago, by Mr. C. T. Swift, one of the present proprietors. The cand had gradually increasing until an extensive laboratory is now necessary to sup. he trade

THIS GREAT BLOOD PURIFIR VEGETABLE

Cures Cancer, Catarrh, Scrofula, Eczema, Ulcers, Rheumatism 100d Taipt, Hereditary or otherwise, without the use of Mercury or Potash.

Books on "Contagious Blood Poison" and on "Blood and Skin Diseases tailed bree.

COMPANY, SPECIFIC 35 SNOW HILL, LONDON, E.C.; and ATLANTA, GEORGIA, U.A.

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MINERAL TABLE WAER. THE NEW, GERMAN, SPARKLING, NATURAL, A friend to Digestion and Circulation.

IN BOTTLES WITH SCREW APSULES An enemy to Gout and Rheumatism. DELICIOUS PLAIN OR WITH WINES AND SPIRITS. AGENTS WANTE. AND COLONIAL FORETGN

JOHANNIS NATURAL MINERAL WATER COMPANY, LD., 5 Great Winchester St., LOI, ON, E.C.

PACE



ESTABLISHED 1859.

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Cop of this paper are sent to persons and firms in the United Lingdom who last year appear from official returns to have xported any chemicals or druggists' goods of any kind. hose among such firms who frequently receive indents f such goods will find this journal essential to their busines All are requested to file this issue for occasional referen.

PO r-CARD COMPETITIONS, 1888.

MEMORS OF THE PHARMACEUTICAL SOCIETY who it is desired hall serve on the Council of that body in the ensuing ear must be nominated on or before March 24, and those nainees willing to offer themselves for election must signify heir intention before March 31. We desire, in the first Ap issue of THE CHEMIST AND DRUGGIST, to furnish these g tlemen with some concise models for their election address, and we therefore offer the usual Prize of One Guinea for wha shall seem to us to be the most effective address to the tde issued by our friend, "Mr. Blank, pharmaceutical chemist whom we now assume to be a candidate. Our competitors ill be able by this means to show what they think needs dag in the pharmaceutical world, and the limits of the post-ca which we insist upon, will compel all to express their ids concisely. Post-cards in this competition will be received p to March 31 inclusive, and any reaching us after that da will be inadmissible. Subscribers, their employés and fan ies, are qualified to compete.

Poisoning Cases. - At Dublin on March 9, Evelyn Kearney, wife of a rat-poison manufacturer, residing at 3 Buckingham Street, swallowed a considerable amount of arsenic, which her husband keeps in stock for business purposes, and died after being removed to the Jervis Street Hospital.—Mary Ann Scrofton, a fortune-teller, and Elizabeth Foxall, a young married woman, were brought up for sentence at the Durham assizes, having several months ago been found guilty of attempted poisoning of Foxall's husband by the administration of "love-powder." Scrofton was now sentenced to seven years' and Foxall to five years' penal ser-vitude.—An inquest was held at Little Coggeshall on the body of Mr. Richard Bird Holmes (64). From the evidence it appears that deceased suffered from chronic bronchitis, for which he had consulted London physicians. The evidence of Mr. John B. Frith, chemist, Coggeshall, who had been in the habit of dispensing the prescriptions of deceased, showed that the mixtures which he got contained solution of acetate of morphine, but not much of it. Mr. Thomas Simpson, surgeon, deposed that when he was called to deceased he being such as would be produced by an excessive dose of a preparation of opium. It was possible that he had taken an overdose of a mixture. Verdict accordingly.—At Whiston on Tuesday afternoon William Lambert (58), a gardener, died from the effects of a two-tablespoonful dose of carbolic acid, taken in mistake for medicine, a bottle of which stood near the carbolic acid bottle.—On Friday, March 9, a boy named John Donnan (6), residing in Hallside village, Cambuslang, who was confined to bed with typhoid fever, while his mother was temporarily out of the room got up and drank a portion of the contents of a bottle of carbolic acid which had been used for disinfecting. He died in four hours.—Salt of sorrel was used with suicidal intent by a woman of 54 in Ayr last Saturday. The results were fatal.

DIARY FOR NEXT WEEK.

Secretarics of societies are requested to send early information of approaching meetings.

Monday, March 19.

Society of Arts, John Stree', Adelphi, W.C., at 8 P.M.
Professor W. Chandler Roberts-Austen, on "Alloys."
Chemical Society, Burlington House, W., at 8 P.M. Mr. John Heron, on "The Polariscope and its application to Brewing."

Tuesday, March 20.

Society of Arts, John Street, Adelphi, London, W.C., at 8 P.M. Mr. William Simpson, on "What Style of Architecture should we follow?

Royal Institution, at 3 P.M. Professor G. J. Romanes, on "Before and After Darwin."

Wednesday, March 21.

Society of Arts, John Street, Adelphi, London, W.C., at 8 P.M. Ordinary meeting. Mr. T. H. Thornton, on "The Evils of Canal Irrigation in India, and their Prevention."

Pharmaceutical Society, North British Branch, Edinburgh. Evening meeting, at 8.30 P.M., Mr. John Nesbit in the chair. Note on "Deposit in Decoction of Broom," by chair. Mr. J. Hutchison Fisher; notes on "Ipecacuanha Wine," by Mr. C. A. Macpherson; report on "Acetic Extract of Ipecacuanha," by Messrs. J. W. Thomson and W. Duncan.

Thursday, March 22.

Royal Institution, at 3 P.M. The Rev. W. H. Dallinger on "Microscopical Work with recent Lenses on the least and simplest Forms of Life."

Chemists' Assistants' Association, 103 Great Russell Street, W.C., at 9 P.M. Mr. A. P. Luff, on "Ptomaines."

Friday, March 23.

Royal Institution, at 9 P.M. Sir Frederick Bramwell, on "A Lecture with—and without—point."

Saturday, March 24. Royal Institution, at 3 PM. William Archer, on "The Modern Diama: English.'

Metropolitan Reports.

THE GALEN CLUB is the name of a new West-end club for medical men and senior students. Should chemists wish to follow the example of the medicos they will please tak note that the name "Laboratory Club" has been appropriated by a club consisting of practical brewers.

THE LIBERTY CLUB.—On Wednesday night, March 14, the last of the series of smoking concerts of the "Liberty" (Burroughs, Wellcome & Co.) Cricket Club was held at the Anchor Restaurant, Cheapside. A very pleasant and convivial evening was spent. Sir John Bennett was among the visitors present. Mr. Burroughs presided, and a special vote of thanks was passed to him and to Mr. Wellcome for the hearty support they have given to the concerts during the

AN INTERESTING MOVEMENT.—The employés of Messrs. Evans, Lescher & Webb assembled in goodly numbers at the school rooms, 181 Aldersgate Street, E.C., on Monday evening, to hear a lecture by Mr. E. A. Webb, F.L.S., a member of the firm, on "A Plant's Life History." The meeting was one of a series of winter evening meetings for the social enjoyment and mental improvement of the employés, and it has occurred to those who have directed them that a little popular science more or less related to the business would greatly enhance the value of the gatherings. A commencement was therefore made with Mr. Webb's lecture, which was of a most interesting character and was greatly enjoyed by the audience. Beginning with the plant in its embryonic state, Mr. Webb showed and explained the various parts of the plant which are designed for its nutrition, preservation, and the perpetuation of the species. While speaking of the leaf, interesting facts were brought before the audience in reference to phyllotaxis, and it was shown that nature, in arranging the leaves in certain cases in a special manner, was providing against the attack of the flowers by insects. The flower was then taken up, and its structure and uses having been explained, the lecturer gave an interesting account of the means which are provided for the fertilisation of the stigma. The structure of various flowers, including the catkin, the flowers of grasses, white nettle, wood sage, primrose, arum lily, Nottingham catchfly, honeysuckle, and campanula was explained, and the provisions in the examples ramed for the attraction of certain insects and the repulsion of others were graphically described. This gave the lecturer an opportunity for some remarks regarding the friends and foes of insects. The concluding part of the lecture was devoted to a description of the means for the dispersion of the seed, and a few well-chosen remarks on the pleasures which are afforded by the study of nature, especially in the rearing of plants. The lecture was illustrated by a large number of excellent diagrams and dried specimens, as well as living plants. On the motion of Mr. Lescher, a cordial vote of thanks was accorded to Mr. Webb.

Probincial Reports.

Items of news, and newspapers containing matters of interest to the trade, sent to the Editor, will much oblige.

BELFAST.

OPPOSITION TO THE PHARMACY BILL.—A spirited circular written by a member of the North of Ireland Chemists' and Druggists' Association, has been put in circulation, indicating the grounds on which the chemists and druggists of Ireland are dissatisfied with the proposals of the Pharmaceutical Council in their Bill. The writer states that at the present moment there are in Ireland, meeting the wants of the public, ten times more chemists and druggists than pharmaceutical chemists, and that if the chemists and druggists were not in existence, the wants of the 2,000 post-towns of Ireland would have to be supplied by less than 300 pharmaceutical chemists, of whom a third are to be found in Dublin, Belfast, and Cork.

After alluding to the abortive attempts to prosec some chemists and druggists of Belfast last year, the w r concludes thus :- "Now the Council are about to intruce an Irish Pharmacy Amendment Act, to legalise all o have gone into business as chemists and druggists up to e year 1887, to be called registered druggists; yet they tooly desire to take away from us the title chemist, but only give us a life interest in our business, and mak no provision whatever for the thousands of young men a ady at our business, and, as already stated, whose exister alone proves them to be a public necessity. They also v'aus to pay them an annual fee for the title registered drug it.

"On these grounds, we intend opposing said Bill id look

for justice from the Imperial Parliament, on beh; of the chemists and druggists of Ireland, whose long exis ce and present status prove them a public necessity to our untry."

FALSE PRETENCES .-- At the Police Court, 1 week, Samuel Frene was charged with having obtained go to the value of 3l. 15s. by means of false pretences, fro Messts. Fry & Company, Sevenoaks, Kent. Mr. Edmund 1 ry, ick manufacturer and chemist and druggist, Sevenor, Kent, deposed that goods to the value of 31. 15s. were s to the prisoner as samples, but he had not received money them, and it was not intended that customers should b harged for them. Other evidence showed, however, at the prisoner had sold some of the ink and had taken ayment for them. for it.

There was a second charge against the prisoner baving obtained goods to the value of 4l. 8s. 8d. from a pishire firm, and he was accordingly remanded, bail to t amount of 2001. being accepted.

BIRMINGHAM.

AN ASTON CHEMIST AND HIS FATHER. — bet B. Belcher, chemist, of Longacre, Nechells, was sur oned at the Aston Police Court on Tuesday for doing will damage to a pane of glass at the residence of his father, ly late, Erdington, on March 7. A family quarrel was me loned as the source of the trouble. The case was withdra on the payment of costs and damages.

A DISPENSARY DOCTOR CENSURED.—At an nest on the body of William Turner (63), gardener, of dywood Road, which was held on Tuesday, Dr. Kirby, a lot of the Birmingham General Dispensary, was cens of The deceased was a patient of the dispensary, and a doctor failed to attend the control of the dispensary, and a doctor failed to attend the control of the dispensary and a doctor failed to attend the control of the dispensary and a doctor failed to attend the control of the dispensary and a doctor failed to attend the control of the dispensary and a doctor failed to attend the control of the dispensary and a doctor failed to attend the control of the dispensary and a doctor failed to attend the control of the dispensary and a doctor failed to attend the control of the dispensary and a doctor failed to attend the control of the dispensary and a doctor failed to a transfer to the dispensary and a doctor failed to the dispensary and a doctor failed to attend the case properly. The verdict 4 to the effect that death had resulted from bronchitis and was accelerated more or less by the neglect of the tor and want of food.

DEVONPORT.

BRANCH SHOPS.—In connection with the 1 chehop clause which has been introduced into the Eill release.

Parliament, it has been stated that in the "Th Towns light (Plymouth, Devonport, and Stonehouse) then to eight branch-shops, not one of which is managed by qualified assistant, and two are managed by apprentices trees years of age.

EASTBOURNE.

HOM GOPATHIC CONVALESCENT HOME.—The ('aleccent home in connection with the London Homeopat Hospital has been successfully established in this health gir locality. The donations and subscriptions amount, we un stand, to nearly 2,000*l*., and the authorities have purchase villa in close proximity to the Princess Alice upperton, Eastbourne. The Home will be open a May.

LIVERPOOL.

AN EXTRAORDINARY SCENE was witnessed be in Friday of last week. A number of barrels containing sthilled spirit were washed ashore at the south end, number of men broached some of the barrels at the south end, trank the spirits freely. As might be expected, the resul that many of the drinkers were soon in a highly dition, in some cases to the same of the barrels at this was dition, in some cases toxic symptoms supervened and means

had to be lopted to rid the men of the "perilous stuff," Some of a make been dangerously ill, nevertheless, and a rumour w current that several children had died.

LIVERPL CHEMISTS' ASSOCIATION.—The annual dinner of the me ers of this Association was held at the Stork Hotel on hursday evening. The President, Mr. A. H. Samuel, w in the chair, and there was a large attendance. There was excellent menu, and the programme of toasts, songs, an usical pieces was a most enjoyable one. After the usual al toasts the chairman, in proposing the Liverpool Chents' Association, said it was the oldest of its kind in the Unid Kingdom. It was to the late Jacob Bell, a name high esteemed amongst all pharmacists, that it owed its incept n. The study of pharmacy in the early days of the Society was comparatively in its infancy. No legal qual ration was required to practise as chemist and druggist, il what knowledge their chemists had acquired was of a vylimited character. The future of their Association, hower, had been in very able hands, and by the indomiable pers rance of such men as Baker Edwards Nathan Mercer, Edd. Evans, Hy. Evans, John Abraham, Robt. Clay, Prof. T. C. rcher, Dr. Nevins, and others, it could not but continue to rosper. Nearly all these gentlemen had passed way from eir midst, but it was highly satisfactory to see round tha able some of their sons, showing that they had he spirit o heir fathers in the furtherance of the good work. le venture to say that no other institution of its kind out of London pod so well as theirs. They had a valuable reerence libry, which could not but be of great advantage o the stud ts of the city. They looked forward to greater uccess in sture. Amongst other toasts which followed vere "The harmaceutical Society of Great Britain," "The Iedical Pression," and "The Wholesale Trade.'

MANCHESTER

SUDDEN CATH IN A CHEMIST'S SHOP.—About eleven colock on conday morning, a greengrocer named Samuel clane, of Unston, entered the shop of Messrs. Jewsbury & rown, phroaceutical chemists, 113 Market Street, Manaceutical chemists, 113 Market Street, Manaceutical chemists, 113 Market Street, Manaceutical chemists, 115 Market Street, Manaceutical chemists, 116 Market Street, Manaceutical chemists, 116 Market Street, Manaceutical chemists, 117 Market Street, Manaceutical chemists, 118 Market S

NOTTINGHAM.

NOTTING M AND NOTTS CHEMISTS' ASSOCIATION.—An ening med of the associates of the society was held on arch 3. 1. W. H. Parker (Hon. Treasurer) occupied the light physically, and morally considered. The author cuse of the weed, and a very animated discussich was taken part in by Messrs. Gill, Allen, d. William on behalf of the essayist, and combated by and Messrs. Turner, Eberlin, Boor, Ayrcs, and the statement of the statement o

SHEFFIELD.

THE ASSA T on Mr. A. R. Fox has turned out to be more the jaw vich knocked out four of his teeth also smashed e jaw-bor jury.

Mr. Fox is suffering severely from this

LEAD-POI AING is still prevalent. Mr. A. H. Allen states at cases a daily coming to his knowledge of poisoning the Sheffle water, and has in his private capacity instituted inquiry, vich is calculated to elucidate all the facts, so as cause on is concerned, in those cases which have curred.

The treat of Sheffield water with limestone has had effect, le, being present to quite as great an extent as e "Lit. an Phil." on the occasion of Mr. Allen reading a per "On t Cause and Probable Cure of the Action of arcoal filts in removing lead to the calcium phosphate

SMALLPOX is abating, and the demand for lymph has fallen off as suddenly as it sprang up.

PHARMACEUTICAL AND CHEMICAL SOCIETY.—Wednesday's meeting was a "students' night," the business being an essay on "Homceopathy and its Lessons," hy H. Cole; "A Note on the Flower-buds and Fruits of Eucalyptus," by G. A. Grierson; magic-lantern entertainment, by A. S. Smith and C. D. Moffatt, and an exhibition of new and rare drugs from the Museum of the Pharmaceutical Society of Great Britain.

WOLVERHAMPTON.

A BRUTAL ASSAULT.—At the Wolverhampton Police Court, recently, Harry Lee, described as a pharmaceutical chemist, of Dunstall Road, Wolverhampton, was charged with assaulting his wife, Martha Mary Lee. Mrs. Lce stated in evidence that she was married ten years ago, and that she had two children. On February 27 she called her husband out of a public-house in Stafford Road, and told him that if he could find money for drink he could find money for the support of his children, who were starving. On his returning home she again reproached him, and he replied by striking her. He then pulled her to the floor by the hair of her head, but he was prevented from committing further violence by the interference of a man named Day. The defendant had systematically thrashed her for the past two years. In reply to the magistrate she said that her husband had come into a valuable business belonging to his father; but he had lost it, and mortgaged the property. He was a thorough master of his profession. [Mrs. Lee's solicitor stated that Lee had gone through 8,000l. in six years.] Latterly she and her family had been supported by friends. Prisoner was found guilty, and was sentenced by friends. Prisoner was found guilty, and was sentenced to two months' hard labour. A judicial separation was also granted, Mrs. Lee to have the custody of the children, and the defendant to contribute 11. per week towards their support.

SCOTLAND. DUNDEE.

AN ABSCONDING BANKRUPT CAUGHT. - Dr. Patrick Letters, who, as reported in this journal of December 10 failed to attend the Edinburgh Bankruptcy Court on Decem ber 2 in regard to his affairs, was arrested in Cork on Thurs day of last week on a warrant from the Edinburgh Court Dr. Letters was formerly in practice in this town, having three open drug shops. He had made no statement of his affairs, and, in consequence of this and his non-appearance at the Court when called upon, the police have been in search of him since December. When accosted by Sergeant Rowe, who said he had a warrant for his arrest, Dr. Letters gave his name as Riordan, and stated that he was the individual mentioned in the warrant. When asked for his address, he said he had no fixed place of abode. He had been residirg in Cork, his wife and family staying in Macroom, a town about twenty miles from the city. Dr. Letters was charged at the Police Court next day, and was remanded pending communication with the authorities in Edinburgh.

EDINBURGH.

MR. NICOL CRAIG, at present with Messrs. Duncan, Flockhart & Co., North Bridge, has purchased the business in Earlston which Mr. Hogg is leaving to take up Mr. Gibson's business in Leven. Mr. Craig assumes possession on April 1.

A Partnership Question.—At the Court of Session on Saturday Lord Trayner heard evidence in the action brought by Mr. Alexander Gibb Bruce, chemist and druggist, 6 Melville Terrace, Edinburgh, against Dr. Robert S. Forrest, Auchterarder, to have it declared that pursuer was partner with defender in a drug business at Auchterarder, which they acquired from Mr. Robert Cairnie in June last, and carried on under the name of the Auchterarder Medical Hall. Count and reckoning was also asked, or payment of 100l. According to pursuer, he and Dr. Forrest were to contribute equally to the capital of the business, and to share equally in the profits. Defender took a lease of the premises in his own name at Martinmas, and alleged that Mr. Bruce retired from the partnership on October 31 last. After evidence had heen partly heard, a settlement was effected, in terms of which defender agreed to pay 34l. to pursuer, and each party is to pay his own expenses.

PARLIAMENTARY REPORT.

THE PHARMACY ACTS AMENDMENT BILL.

IN the House of Lords, on Monday, the report upon the amendments to the Pharmacy Acts Amendment Bill was

brought up for consideration.

When the Bill was in committee a new clause was inserted which ran thus:—"It shall be unlawful for a duly-qualified keeper of an open shop for retailing, dispensing, or compounding poisons, to keep open shop in more places than one, unless he shall engage or employ at each branch shop a person who would himself be a duly-qualified keeper of an open shop for retailing, dispensing, or compounding poisons, and such person is bonâ fide occupied in such branch shop; provided always that each partner in a duly-qualified partnership may keep a separate open shop for retailing, dispensing, or compounding poisons. Every keeper of an open shop for retailing, dispensing, or compounding poisons acting in contravention of the preceding section shall, for every such contravention, be liable to pay a penalty of 51, and the said penalty may be sued for and recovered in the manner provided for by the Pharmacy Act, 1852, for the recovery of penalties under that Act."

Upon the report being brought up, Lord Milltown moved the omission of the words "unless he shall engage or employ at each branch shop a person who would himself be a dulyqualified keeper of an open shop for retailing, dispensing, or compounding poisons, and such person is bonâ fide occupied in such branch shop; provided always that each partner in a duly-qualified partnership may keep a separate open shop for retailing, dispensing, or compounding poisons," and to insert the words "Each branch shop shall be bona fide conducted by a duly-qualified assistant, and a duly-qualified assistant within the meaning of this clause shall be a pharmaceutical chemist, or a chemist and druggist registered by the registrar under the Pharmacy Acts of 1852 and 1868," in their place. With regard to clause 5 of the Bill, which stood thus: "This Act shall, for the purposes of passing by-laws come into operation on the first day of January, one thousand eight hundred and eighty-nine, and may be cited for all purposes as the Pharmacy Act, 1888, and shall be construed as one with the Pharmacy Act, 1852, the Pharmacy Act, 1868, and the Pharmacy Act (1868) Amendment Act, 1869," his lordship moved to leave out the words "for the purposes of passing by-laws."

The amendments were agreed to, and the Bill passed

through the report stage without discussion.

The following is the text of the Bill as it now stands:—
A BILL

[AS AMENDED ON REPORT]

Intituled an Act to amend the Pharmacy Act, 1852, the Pharmacy Act, 1868, and the Pharmacy Act (1868) Amendment Act, 1869.

BE it enacted by the Queen's most Excellent Majesty, by and with the advice and consent of the Lords Spiritual and Temporal, and Commons, in this present Parliament assembled, and by the authority of the same, as follows:

1. The powers of the Pharmacy Act, 1852, of the Pharmacy Act, 1868, and of the Pharmacy (1868) Amendment Act, 1869, with respect to examinations required for obtaining certificates of qualification under the said Acts, or either of them, shall be extended so as to allow of the division of the said examinations into preliminary and other parts of the same; also to allow of or require periods of time and courses of instruction between any of the said parts; and to require that persons presenting themselves for the final part of an examination shall have deposited with the registrar under the said Acts certificates of their having duly attended courses of instruction in chemistry, botany, and materia medica, and having for not less than three years in the whole served in the open shops of chemists and druggists, or in public hospitals or dispensaries as apprentices or pupils of chemists and druggists qualified in accordance with the law of the country in which they are carrying on business to dispense the prescriptions of persons legally qualified to practise medicine in that country.

- 2. It shall be lawful for the Pharmaceutical So ty of Great Britain from time to time, by by-laws duly cormed by the Privy Council, to regulate the said division c raminations and also the said periods of time and study ween any of the said parts, also to allow and provide fond to regulate the reception of certificates issued by or ceramining bodies in lieu of or so as to satisfy the exar ers in lieu of the preliminary part of any examination, al to regulate the courses of instruction in chemistry, bot 7, and materia medica to be duly attended as aforesaid, to the forms of certificates to be for any purpose of this A deposited with the said registrar, and also the notices to given and fees to be paid by persons intending to prese them selves for examination in any part of an examinon or desiring any registration under the said Acts or ever of Provided always that no by-law for the poses authorised by this Act shall come into operation pri to the first day of January, one thousand eight hundred an inetythree.
- 3. It shall be unlawful for a duly qualified keep of an open shop for retailing, dispensing, or compounding occurs to keep open shop in more places than one unless ear ranch shop shall be bona fide conducted by a duly qualifie assistant, and a duly qualified assistant within the mount of this clause shall be a pharmaceutical chemist of the chemist and druggist registered by the registrar uper the Pharmacy Acts of 1852 and 1868. Every keeper of open shop for retailing, dispensing, or compounding poise acting in contravention of the preceding section, shall every such contravention be liable to pay a penalty of fivounds, and the said penalty may be sued for and recover in manner provided by the Pharmacy Act, 1852, for he recovery of penalties under that Act.

4. This Act shall not extend to Ireland.

5. This Act shall come into operation on the firs lay of January, one thousand eight hundred and eighty se, and may be cited for all purposes as the Pharmacy Act mendment Act, 1888, and shall be construed as one in the Pharmacy Act, 1852, the Pharmacy Act, 1868, d the Pharmacy Act (1868) Amendment Act, 1869.

FRENCH PHARMACEUTICAL NEWS.

(From our Paris Correspondent.)

M. FILLION, a pharmacist of the first class, 5 been appointed, for a term of nine years, assistant pr ssor of pharmacy and materia medica at the Besançon hool of Medicine and Pharmacy.

SACCHARIN CHARTREUSE FOR DIABETICS.—At recting of the Society of Practical Medicine, M. A. Pet recommended the following formula for diabetic pat 5 who cannot do without their drop of chartreuse after m 3:—

The object of the bicarbonate is to increase the so lity of saccharin, naturally an acid compound, and in we its flavour.

LEAD POISONING.—A new way of getting poir id with lead was mentioned by Dr. Duguet at a recent 1 ing of public hygienists. A patient under his care at bossière Hospital, suffering from lead colics, was und to have contracted the disease through the hardling paper coloured with red plumbic oxide. The material cut into strips, and gummed on one side, and all the tient a woman—had to do was to catch the strips by one id with her wet finger, and to apply them to the box lids. contact was short enough; but as it had to be refer ed for or five thousand times a day, and her finger had to welled again and again on her tongue, she was taken will violent attack of saturnism. Under treatment she reco found other work; but other women are now er ofed in her place, and getting slowly, but surely, poiso finishing the same boxes. To give every one his (it may be added that the boxes in question are used for rand of speed cotton collection colle spool cotton called the "Coton à la Ménagère."

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ANTIPYRINE LAWSUIT.—M. A. Petit, the pharmacist of the Rue Favart, is now at law with the Parisian Aniline Command (Compagnie parisienne des couleurs d'aniline), repres ted by M. Knorr, the issue of the contest being to obta a decision on the validity of the antipyrine patent and de-mark. From the beginning the feeling of French pharmacists has been, as may be expected, strongly in favour of the stand taken by M. Petit, the defendant in the action now ending. But something more tangible than good wish and empty "resolutions" is necessary to help in the fight rainst a powerful corporation. At their last sitting the bard of the Seine Pharmacists' Provident Society (Soci de prévoyance des pharmaciens de la Seine) decided to affd to M. Petit, and to any other member of the society whom y be similarly prosecuted, its moral support, and, if necessary, pecuniary aid. The contest is getting interesting

Socté des Amis des Sciences.—Under this unpretentious tle a benevolent society, founded in 1857 by the chem Thénard, is doing much good, and has acquired consicable development. Its object is to lend a helping hand such scientists, or their families, as may be in need of ass ance. The funds at the disposal of the society are ehiefly erived from the yearly contribution (10f.) of its 2,400 membs, but it has other sources of income, as will be seen hereafr. On Saturday, March 5, the annual meeting was held a he grand amphitheatre of the Sorbonne, and from the reat of Secretary A. Riehe, a professor at the College of Phanacy, some interesting facts taken at random may be quoted It seems not long since the society was straitened for fu s-that is, it had not as much money as it wished to distribe in charities—when some one suggested the idea of a l. The greybeards were horrified, but the ladies, who alays have the last word, favoured it, and made the festivi such a success that a ball every two years is now an accept feature of the society's proceedings. And indeed danein or charity's sake must be a profitable pastime, since the averge returns have been 50,000f., for each ball. The total ir me for the past year was 128,000f., but out of this the surpf 22,000f. should be deducted, as it was bequeathed by M. rbey for a special purpose, namely, the education of some s ntist's son. The Galignani brothers also conferred a benefon the society. In the house of retreat founded by them 5 berths will be gratuitous; and the society will have the selection of 20 of the beneficiaries, who are to be old scientis or their widows. Bequests were also acknowledged of 3,00, from the Boussingault family and 20,000f. from M. Thoussin. The funds on hand aggregated on January 1 about (),000f., and it is hoped to soon complete the round million From a glanee at the list of the officers and memberit is easy to see that chemists and pharmacists are Profess A. Riche, of the College of Pharmacy, and Baron Thénard secretaries; also Professor Berthelot; M. Chatin, late direct of the College of Pharmacy, and Baron Thénard secretaries; also Professor Berthelot; M. Chatin, late direct of the College of Pharmacy, and Baron Thénard secretaries; also Professor Berthelot; M. Chatin, late direct of the College of Pharmacy and Pharmacy chemist Professor Marty, of the Val-de Grace; Senator Scheure Kestner, the chemist; and many others. Besides, two of t regular ushers of the College of Pharmacy assisting in the 1 cing of the audience lent a familiar and decidedly pharma itical look to the proceedings. A short lecture on Lavoisic by Professor Grimanx, proved an interesting feature the evening. The object of the speaker was to show the orivate life of the man so well known as a public and soic in a character with the contract of the man so well known as a public and soic in a character with the c and seignific character, and this he was enabled to do by the kind ss of Lavoisier's family, represented by his grandnephew, de Chazelles, who occupied a seat on the platform on the casion. From unpublished letters and documents it appea Lavoisier when twenty eight years of age married a girl bely past fourteen, who with womanly devotion did her ut me to lighten and help her husband's labours, learning drawing ad foreign languages, and acting as his secretary, During enjamin Franklin's sojourn in France she painted his port t, which is still in the possession of the family. In 1797, wla Arthur Young visited Lavoisier, she prepared for him a relar English breakfast with tea and coffee, things almost tenown in France at the time. Lavoisier had also frequent elations with Banks, Tennant, and other scientists, and far and the scientists. and far om being jealous of contemporary chemists, his correspolence shows him to have been a great admirer of

Priestley, whose opinions he quoted with deference, and of Black, whom he called the Nestor of chemistry. A man of wealth and influence, Lavoisier was ever interested in the welfare of the poor and weak, promoting every undertaking which could improve their condition. He died, as is well known, a victim to the political passions of the time, his only crime being that he had been a farmer, or collector, of taxes, a most unpopular employment at all periods. But a reparation is due to his memory. A project is now on foot to erect a statue to Lavoisier before 1894, the centeniary of his death, in front of the Palais Mazarin, formerly the site of the Cellego Mazarin, where he was educated, and now the seat of the Academy of Sciences, which owes so much to Lavoisier.

DR. MEYMOTT TIDY ON POISONS.

A T the Royal Institution on Friday evening, March 2, Dr. Tidy delighted a large audience for the space of an hour with a characteristically-delivered lecture on "Poisons," Going to the very root of his subject, he went back to the time of the ancient Greeks to show that the word toxicology was derived from the Greek word towon, which signified not only a bow but the arrow which was shot from it. Later Dioscorides used a modification of the word to signify the poison which was smeared on the tips of the arrows. The history of poisons is one of the most interesting studies which anyone can take up. It may be said that it begins with the serpent which tempted Mother Eve, and whose venom was the poison which has since rankled in the soul of man. Snake poison was first used for tipping arrows; it was much later before vegetable poisons were introduced for this purpose. Some of these poisons are extremely powerful. "Here," said Dr. Tidy, "is one of them, 'Curarine,' which belonged to my accomplished predecessor, Dr. Pereira. It is believed to owe its action to strychnine. I don't know about that, but here is a bottle with enough aconitine in it to remove the whole scientific life in London-(laughter)-and here strychnine sufficient to remove 14,000 or 15,000 people. Mighty weapon!" Proceeding in this fashion in mockheroic tone of voice, frowning on his specimens with nervous eagerness, Dr. Tidy went on to consider What is a Poison? Blood was long reputed to be a poison, but that idea is now exploded. It is not easy to define a poison. The law has not given a definition, and the popular one, that "a poison is a drug which kills rapidly when administered in small quantity," won't do. Showing bottles containing about an ounce of oxalic acid and the same of lead acetate, he asked could these be considered small quantities. His definition was that "a poison is any substance which, other than by the agency of heat or electricity, is capable of destroying life by chemical action or by its physiological effects upon the system." Anything mechanical capable of being swallowed -such as pins or Acts of Parliament-is not a poison; nor is anything which blocks out other substances essential to life. Nitrogen, for instance, is not a poison, although we cannot live in it, but carbonic acid gas is, because it has a specific toxic action, and the presence of any quantity of oxygen would not prevent this. The law has somewhat complicated the question What is a poison? by tacking on the word "deadly" to it, as in the indictment in Palmer's case, which was read. Now if a poison is a poison it is deadly, if it is

not deadly it is not a poison.

Poisons may be considered to act in three ways. In the first of these, corrosive substances, such as sulphuric acid, acting upon the tissues, destroy them. Thus sulphuric acid acts by withdrawing water from the tissues, leaving them in a charred state, thus producing localised death, which becomes general. Specimens of human stomachs which had been so destroyed were exhibited, and attention was called to the peculiar effect of nitric acid, which leaves the stomach in the yellow condition which is characteristic of that acid. The second class of poisons may be exemplified in carbonic monoxide, which poisons by altering the chemical constitution of the blood so much that the physiological functions cannot be performed. At this part of the lecture, Dr. Tidy exhibited several interesting experiments, showing the absorption band of hæmaglobin in the blood spectrum, and the affinity of oxygen for hæmaglobin, whereby the latter acts as the oxygen-carrier for the whole system. The act of

life depends upon the integrity of the hæmaglobin. It happens that when carbon monoxide is breathed it combines with the hæmaglobin, and persistently refuses to part with it, so that it loses its property as a carrier of oxygen; hence carbon monoxide is a true poison. After showing how blood is detected when it exists as spots on clothing (simply by carefully washing with a weak solution of citric acid, and examining the solution with the spectroscope for the absorption band), Dr. Tidy proceeded to describe the third class of poisons, taking strychnine as his example. He showed by means of a lantern the colour reaction of the alkaloid, the oxidation being induced by connecting the poles of a battery with the solution of strychnine in sulphuric acid. As to the question. How does strychnine poison? he simply said, "I don't know; nobody knows." But it is a noteworthy fact that when a frog, poisoned with strychnine, is carefully watched, it is observed that the minute that the tetanic convulsion comes on is just the minute at which hæma. globin disappears from the blood.

The remainder of the lecture was devoted to a description of the attempts which have been made to show that the poisonous properties of bodies bear some relation to natural laws, such as, in the case of the elements, the atomic weights and the periodic law, and in the case of compounds the constitution thereof. Ingenious as are many of the suggestions which have been made since the days of Blake in 1841 there are too many exceptions to the laws which have been formulated to allow them to be established. For instance, observations have led to the assertion that physiological action increases with atomic weight, but it happens that lithium (7) is more toxic than sodium (23) and potassium (39). Again, the allotropic form materially alters the physiological action of the elements. Thus ordinary phosphorus is highly poisonous, amorphous phosphorus is absolutely inert; oxygen is the staff of life, its allotropic form ozone is an active poison. Chemical constitution does, indeed, bear some relation to physiological action, as in the case of isomorphous salts, and Fraser and Crum-Brown have shown that by modifying chemical constitution physiological action is altered. Thus strychnine acts upon the spinal cord, producing tetanus, but introduce the methyl group into it and it is found that the compound produces paralysis. Curious to say other alkaloids also paralyse when the methyl group is introduced into them. But on the whole no à priori reasoning can tell us what the action of a thing may be. In conclusion, Dr. Tidy showed how the poisons of the toxicologist are the medicines of the physician, and upon this he based a defence of vivisection.

Regal Reports.

TRADE MARK CASE.

In the Chancery Division, before Mr. Justice Kay, on March 9, application was made on behalf of a firm carrying on business as the British Hygienic Company, to restrain a defendant named Schwenck, until the trial or further order, from infringing the plaintiffs' trade-mark and passing off his goods as the plaintiffs'. The plaintiffs claimed to be proprietors of an ointment, called "Almond Popoline," which they sold in penny boxes, bearing a registered label or trademark of the human foot, in combination with the words "Almond Popoline," and stating that the preparation "keeps the feet sweet and healthy." The defendant Schwenck had been employed by the plaintiffs as the commander of a brigade of boys in uniform, who hawked the plaintiffs' preparation about the streets of Canning Town, and the plaintiffs alleged that Schwenck and his co-defendant were selling an ointment in boxes bearing labels similar to theirs, with the exception that the defendants substituted the title "Almond Popiton."

Mr. Marten, QC., and Mr. Bousfield appeared for the ptaintiffs; the defendant Schwenck appeared in person.

Mr. Justice Kay said he exceedingly regretted to see that the Court was constantly being asked to grant injunctions to testiain people from selling quack preparations. He was satisfied that this was usually done for the sake of advertisement. He felt bound to say that the plaintiffs in this case hall established their right to an injunction; but lest they

should make use of the order to advertise their articles must do what he did on a former occasion in a simila ass—namely, request that there should be added to the sertisement a caution from the Bench that no one should be stuff except under medical advice.

THE MERCHANDISE MARKS ACT—GELATINE OI ISINGLASS?

AT the Mansion House, on Tuesday, Mr. Latimer Pilier Swinborne was summoned before the Lord Mayor for infringement of the provisions of the Merchandise Marl Act of 1887 by having applied to certain goods-namely, ge ine or other substance - a false trade description as t the material of which such goods were composed, by whiche scription the goods were falsely described, stated, orind ted to be isinglass. There were three other summonses a nst Mr. Swinborne for selling the goods in question and apping to them a false trade description, whereby they were fely described as being the subject of an existing patent or be patent isinglass, and also for selling the latter good has described. The defendant pleaded "Not guilty." Mr. ler and Mr. Gray appeared for the complainants; Mr. Polan ras counsel for the defence. Mr. Besley, in opening the se said this was a proceeding instituted by Messrs. Gric & Co, isinglass merchants, of 4 Bishopsgate Avenue On February 6 twelve packets of the goods in question ere sold at the defendant's premises in St. Andrew's Hill, en Victoria Street, the label on the packets stating "by ral letters patent." Mr. Besley pointed out that no 1 nt existed after the lapse of fourteen years, and as far as 1 ras instructed the only patent which would warrant that tement was one granted provisionally in the year 184 ad completely registered in 1848. He (Mr. Besley) was aware of any subsequent patent, but as far as the evince was before him there had been no patent since that ne. That patent had reference to the manufacture of gel ne and isinglass was not mentioned in it, but only ar inglass cutter. The goods in question were described (ne labels as "Swinborne's patent refined isinglass," a it was asserted on the part of the prosecution that thi 'as a false description of the contents. It was alleged i he summonses that it was not isinglass, but gelatine, ad that there was not a patent existing which would er anything like the description. Isinglass was manufaced from the swimming-bladders of sturgeon and other 1b. Upon an analysis of a packet of the goods in question to particle of isinglass was found, but it was gelatine. Isil 485 was marked to a certain extent by non-solubility, and ge no by solubility. Gelatine might be made from hides of addressed skins. Professor Attfield, F.R.S., professor of intical chemistry to the Pharmaceutical Society, deposed lat he analysed one of the packets in question. In his of on the substance was not isinglass, but ordinary soluble gel lac Among other differences, the insolubility in warm wa of isinglass as contrasted with the solubility of ordinary ge ne was considered by him to show that the material was innary soluble gelatine and not isinglass. The witness as cross-examined at considerable length by Mr. Poland to the composition of isinglass and gelatine. The word "pat indicated that it was not isinglass, isinglass being an al substance. Isinglass was chemically one form of gel le Dr. Hake, professor of chemistry at Westminster Ho all also gave evidence. It was stated that when the summ es were served upon the defendant he read them and said, was threshed out in 1851." Mr. Poland, at the conclus of the evidence, submitted that no case had been made o the prosecution. The Lord Mayor, interposing, said 1 d not think it would be necessary to hear the learned co He did not consider that the prosecution had made out in case, nor did he think it one that came within the et or spirit of the Act. The word "isinglass," by the evi 2, was evidently a torm which had been a spirit of the Act. was evidently a term which had been used as appli to gelatinous matters, and it was admitted by many authors. that isinglass was the purest form of gelatine. Pro of Attifield, in his evidence, said that the word "patent" one packet proved that it could not be isinglass, which natural substance, and, if so, they could no more have I not be included in the substance of the substance o isinglass than they could have a patent pear or a fall apple. Mr. Besley said he should like to have the que in of law reserved for the opinion of the High Conrt.

Poland aid that ever since 1847 they had described this article this way. In 1851 the validity of the patent was question, and it was then described to be a most valuab patent. In 1853 Mr. Swinborne took proceedings against me other persons, and the Master of the Rolls then said the plaintiff, Mr. Swinborne, was possessed of a patent or the manufacture of isinglass. They had always describe it in this way. The Lord Mayor observed that they could relate have a stronger proof that he was right than the fact the a judge had described it as isinglass. Therefore the ten as a general term was perfectly correct. The summo es were accordingly dismissed.

FILURES AND BANKRUPTCY REPORTS.

Re HIRY ACKERMAN, Wholesale Druggist, Chemist and Dentist.

AT the Bristol County Court on Friday last the judge confirm the composition which had been offered.

WILLIA CLEMENT MILWARD, 21 St. Stephen's Squarc' Webourne Park, late "Derhaddon," Brixton Rise' Suron.

THIS btor applied to Mr. Registrar Brougham to confirm a settle ent of arrangement come to by the creditors at their fir meeting. The statement of affairs shows liabilities 2,866l. (10d., of which 2,745l. 19s. is expected to rank, and assets 4. At the first meeting the creditors resolved to accept cheme of arrangement providing for the payment of a surp 3001, to pay the preferential costs, the balance to be diled pro rata among the creditors, family claims to the amout of 1,4181, 9s. 6d. being withdrawn. The Official Receive eported that inasmuch as only 40l. assets had been disclose by the debtor in his statement of affairs, and that the liabilies expected to rank for dividend would be considerabl reduced by the withdrawal of the claims mentioned, to proposed scheme of arrangement was reasonable, and callated to benefit the general body of creditors, inasmuc is it would upon withdrawal of those claims pay about 3s d. in the 1l. The debtor, who states that he is a bachelor f medicine, and formerly practised in Manchester, came to ondon in June, 1885, and attributes his failure chiefly this expenditure having exceeded his income, and to expens in connection with his Brixton premises. The scheme 's now opposed by creditors chiefly on the ground of unjustable extravagance in living. After hearing the argumen his Honour came to the conclusion that the offence extravagant living had not been proved. As to the sche, taking all things into consideration, he thought it was a neficial one to the general body of creditors, and ordered to be confirmed.

EDWIRIPPON, 85 Upper Street, Islington, Chemist, &c.

In thi case the receiving order was made on February 2. The debtor has already been adjudicated bankrup and an order has been made for the summary administ tion of the estate. The accounts filed show gross lia lities of 3241. 19s. 8d., of which 2701. 15s. 8d. is expect to rank against assets of 911. 1s. The Official Receiver ports:—"The debtor states that he began business in 18 with 8001 borrowed money, which he has since repaid or of the profits of the business. He attributes his insolvent to his expenses having latterly exceeded his profits or go to a falling off in his business during the past three year, from increase of competition and changes in the neighbor ood, and to depreciation in the value of his stock and effect only a better that he is showing his cash takings since 1878, and states than he is not kept any ledger or account of his disburse-

ANTIP IN is considered by Mr. N. E. Davies to be an invaluable remedy for migraine and headache. He gives it in 10-gra doses every two or three hours, until the pain is relieved, id then every six hours for a day or two after, thereby penting all chance of a recurrence. Dr. G. C. Kingsburgives similar testimony.

Gazette.

PARTNERSHIPS DISSOLVED.

- BROWN & GRIFFITHS, Dudley, chemical manufacturers, makers of self-raising flour, spices, polishes, and other articles.
- HARGREAVES BROTHERS & Co, Kingston-upon-Hull, blue and black lead manufacturers; as far as regards M. H. Hargreaves.
- HARRISON, J. & B, Thornbury, near Bradford, veterinary surgeons.
- Medwin, A. G., & Hooper, H. J., Montpelier Row, Black-heath, dentists and dental surgeons.

THE BANKRUPTCY ACT, 1883.

RECEIVING ORDERS.

- AVERY, ALFRED (trading as the Crayford Wine and Spirit Company, and Mineral Water Manufacturer), West Hill, Dartford, and Crayford, Kent.
- BARNES, LAWRENCE ROBERT (trading as Barnes & Co.), York, chemist and druggist.
- MARSTON, GEORGE HENRY, Lordship Terrace, East Dulwich, lately trading at Swiss Terrace, Forest Hill, Commercial Road, E., and Whately Road, East Dulwich, chemist.

FIRST MEETINGS AND PUBLIC EXAMINATIONS.

- AVERY, ALFRED (trading as the Crayford Winc and Spirit Company, and Mineral Water Manufacturer), West Hill, Dartford, and Crayford, Kent. First meeting, March 23, Official Receiver's Office, Rochester. Public examination, April 5, Court House, Rochester.
- LOCKWOOD, WILLIAM, & LEITH, JOHN, St. Helen's, chemical manufacturers. March 20, Official Receiver's Offices, Liverpool. March 19, Court House, Liverpool.
- RIPPON, EDWIN, Upper Street, Islington, chemist and draggist. March 22, 33 Carey Street, Lincoln's Inn. April 12, 34 Lincoln's Inn Fields.

ADJUDICATIONS.

- MARSTON, GEORGE HENRY, Lordship Terrace, East Dulwich, Surrey, late of Swiss Terrace, Forest Hull, Commercial Road, and Whately Road, East Dulwich, chemist.
- RIPPON, EDWIN, Upper Street, Islington, chemist and druggist.

NOTICES OF DIVIDENDS.

- CANN, FREDERICK, Bridgnorth, veterinary surgeon. First div. of 11s., any day, Official Receiver's Office, Ludlow.
- Simon, S. H., Moscovy Court, Tower Hill, drysalter and commission agent. First and final div. of $4\frac{1}{3}d$., any day except Saturday, Chief Official Receiver's Offices, 33 Carey Street, Lincoln's Inn.

APPLICATION FOR DEBTOR'S DISCHARGE.

WHITHAM, JOSEPH (trading as Whitham & Co, and as the Whitecroft Printing Company), Miles Platting, Pendleton, and Braxenden, Lancashire, also trading with T. Brayshaw, at Manchester, and residing at Nelson. Lancashire, chemical manufacturer, dyer, printer, and galvaniscr. April 21, Manchester.

SCOTLAND (DIVIDEND).

Creditors of ROBERT PARK, 52 St. Enoch Square, Glasgow, and residing at 2 Nithsdale Place, Pollokshields, doctor of medicine, will receive a dividend, April 28, in the counting-house of J. Martin, 183 West George Streef, Glasgow.

THE monthly meeting of the Council was held on Wednesday, March 7. Present, the President, Mr. J. E. Brunker, M.A., in the chair, the Vice-president, Mr. Draper, and Messrs. Hodgson (treasurer), Grindley, Dr. Collins, Wells, McCormack, Doran, Biggs, Charles Evans, Sir George Owens, Allen, and Dr. Montgomery.

MR. PAYNE.

A letter from Mr. J. C. C. Payne, of Belfast, stated that in deference to the expressed wish of the Council, he had reconsidered his resignation of membership of the Law Committee, but being convinced that at the present important crisis of the Society's history it was essential that all the members of that committee should attend its meetings, and as he was unable to do se, he had to ask the Council to appoint another member in his place.

The PRESIDENT: I am sorry Mr. Payne decides to go off the committee. He has been very useful to us. We often have had occasion to refer questions arising out of candidates' certificates to him.

Other speakers expressed similar views, and it was agreed to postpone the consideration of his letter until next month.

TECHNICAL SCHOOLS.

A letter from Mr. Graves, hon. sec. of the City of Dublin Technical Schools, asked that the chemical school of this institution should be placed on the list of those from which the Council received certificates of attendance from candidates offering themselves for the final examination. It was stated that the services of Mr. T. A. Shegog, A.I.C., assistant chemist to the Royal College of Science, Ireland, had been retained for the school in question; that it was open in the evening; and that its laboratory met all the requirements of the Science and Art Department of London.

The PRESIDENT said the technical schools were a very useful institution, but he doubted if their chemical school was suited for the training of pharmaceutical chemists. At all events it would be premature to accept it without inquiry. It might be well perhaps for a committee to visit

the school.

After a little conversation the Registrar was directed to write to Mr. Graves stating that a deputation from the Council, consisting of the President, Mr. C. Evans, and Mr. Allen, would visit the school, and report the result of their inquiries to the Council.

NEW ZEALAND IS FRIENDLY.

A letter was read from Mr. John Bronte, of Wellington, New Zealand, returning thanks for the copy of the calendar of the Society, which had been sent to him, and enclosing a copy of an Act which had been passed by the New Zealand Legislature, authorising the Pharmacy Board of those islands to accept the licence of the Pharmaceutical Society of Ireland.

THE BELFAST CHEMISTS.

The following communication from the Belfast Pharmaceutical Chemists' Association was read:—

The President and Council of the Pharmaceutical Society of Ireland.

Gentlemen,-At a meeting of the Bolfast Pharmaceutical Chemists' Association, held ou Thursday, the 19th instant, called to consider the opinions of the licentiates of the Pharmaceutical Society, as asked for in the circular of the 24 ultimo, it was found that out of 300 pharmacentical chemists who were on the register at Midsummer 1887, the latest list accessible (a number had gone ahroad or into other occupatious, and others could not be found at their registered addresses, the circulars being returned unopened), a considerable majority of the whole number (300) have signed the opinion "That the Pharmaceutical Council should only be permitted to register all bond-fide chemists and druggists, or druggists who were trading as such at 1875, but no others." Some have written, in addition, that they "wenld prefer to register none of them, as the law is perfectly clear," and others voluntarily offer subscriptions to assist us. As, therefore, a substantial majority of the whole Pharmaceutical Society are against the proposed action of the Council, and as the legitimate chemists and druggists are dissatisfied with it also, this meeting desires that these facts be brought under the Council's notice, and respectfully suggests to them that they proceed no further, in the meantime, with the proposed Amendment Act, but that they endeavour to enlarge the membership of

the Pharmaceutical Society, so as to make it, as far as possible extensive with the number of its licentiates. The Council would then f represent these licentiates, and, united by common interest and core sympathy would go forward harmoniously to secure such further legisle 1 as migh be found necessary or desirable, confiding in the moral and terial support of their constituents to any well-considered measures for e advance ment of pharmacy and the promotion of the interests of the ngaged in it. If, however, in the face of these facts, and ignoring all thas been accomplished during the past twelve years, the Council p st in thus hastily going to Parliament for legislation on the lines t have laid down, which are dangerous to public safety and nnjust to p maceutical chemists, this association shall continue its opposition by all legitimate and constitutional means now at its disposal.

WILLIAM PROTT, Vice esident, ANDREW MONAUGHT, Fretary,

The PRESIDENT: In reply to these gentlemen rote the following letter, which I submitted to the vic resident, and which I think answers all the points that ley have raised ...

GENTLEMEN. - I regret very much that your communication dressed to Mr. Ferrall on 24th ult. did not arrive in time to appear (be agenda of the last meeting of Council; and still more that when did arrive it was not shown to me at once. I first saw a reference it in TEL CHEMIST AND DRUGGIST of last week, and on asking the regrar about it, saw it for the first time yesterday. This explanation ; no to the Council and myself, lest you should consider that any dis riesy was intended to our Belfast constituents when you find no allusio, the letter iu the published proceedings of last Council meeting. I think ar association bas scarcely apprehended the intentions of the Council in a proposed Bill. It has now been settled and will be in print in a few ys, when a copy will be sent to you. When you have read its provisic parefully I believe you will admit that the best interests of pharmacer I chemists have been cared for. It must be kept in mind that it is a thing to prepare a Bill and another to get it through Parliamen id that in the present temper of the country no Bill nakedly supporting monopoly has any chance of becoming law. We must proceed on the inciple of give and take; and admitting this, if you and the Bel bond file cbemists and druggists will carefully read our Bill, you wi e that we have done our best to reconcile conflicting interests. As to arging the membership of the Society, you will remember that more t one effort has been made to effect this, and the carnest wish of every n ber of the Council is to see all licentiates of the Society in a position t reavoice in selecting the Council, and to put in those whom they this best fitted to represent them. It is hardly fair, however, that those of willally abstain from putting themselves in that position should find the action of the existing Council, and that, too, without thorn acquaintance with its plans and objects. The licentiates of Dublin an 's vicinity have, at a largely attended meeting, expressed their approval the proposed Bill, and I commend to your notice the report of the p pedings of that meeting which will appear in The Chemist and Drug of Salar day next. With regard to your reference to basty (?) action he parto the Council, it is now ten years since I joined that body and id that it bad already decided on urging upon Government the necessi f amend ing the Act of 1875. The proposals then made, and for sever pars after, went very much further in the interests of the druggists the hose Don made; and yet during those ten years no representations t received from Belfast on the subject except through the local met 's of the Council, who were not unanimous on the subject. I sincerel; ist that calm view of the matter will lead your Association to form a refavor able opinion of the Council's intentions, and I assure you : if I can in any way help you towards that result I shall be much sed. Be member that the financial position of the Society is not st E. Hith Bill, which will certainly be introduced this Session, is threa at, things may drag on for years in their present unsatisfactory condition le Poisson Act a dead letter and the unregistered traders picking up most —unless, iudeed, the druggists promote a Billon their own acci (and that would mean unrestricted free trade in poisons), which in a dem of Commons would he at least as likely to pass as one pron purpose of securing the strict letter of the rights of pt accatical Yours faithf J. E CNEER chemists.

The PRESIDENT added: I have received no ac pwledge ment of the receipt of that letter since.

Sir George Owens: I think that reply on to be entered on the minutes.

Mr. Hodgson: Both letters should be.

Mr. Wells: They do not state what the majori s. The President: It is strange that the opini of the Dublin pharmaceutical chemists should differ so to ly from

The letters were ordered to be entered on the mi .es.

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THE STATE OF THE PARTY OF THE P

LITED LIABILITY COMPANIES AND THE PHARMACY BILL.

h reference to Section 13 of the Draft Pharmacy Act Amdment Bill, Messrs. William Harrington & Son and Me's. Goulding & Co. in a joint letter protested against the quirement of that section that every shareholder in a lim d liability company should be a qualified pharmacist. Me's. Harrington & Son stated that their firm was establisd in 1805, Messrs. Goulding's in 1846, and both had bee recently converted into joint-stock companies. They stat that if the clause were made law it would very injuously affect them. Messrs. Hamilton, Long & Co., of 3 Iver Sackville Street, also wrote, and stated that the bus is of their company was commenced in 1826, and the esta ishment remained private property down to 1878, when it bame necessary, in order to carry out family arrangemer, that it should be turned into a limited company. No cha e was made in the working of the concern, which was, as fore, properly and efficiently carried out by qualified persis. All the directors of the company were also qualified nd no unqualified shareholder was allowed to take any part the management of the business. Should the clause be lained, the writers stated that they would have no alterative but to join with others in strenuous opposition to the ll. Mr. Pring, writing on behalf of Messrs. Grattan & C asked that companies established prior to January, 1887 hould be exempted from the clause; otherwise they wou have to oppose the Bill.

TI PRESIDENT said he had an interview with Messrs. Har gton and Goulding, and told them that it had never been tended to interfere with existing companies; and he also inted out to them that even under the original Pharmac Act the trustees of their fathers' wills could have carri on the business for an indefinite period, provided that ly qualified men were employed for that purpose. He also w Dr. Hamilton, and informed him of the amendment to this the clause, which he (the President) was now about to me. It was only right that no injury should be done to veste interests, and that establishments, which during an unce in state of the law, had, for family or other reasons, been inverted into limited liability companies, and which were roperly conducted by pharmaceutical chemists or apot caries, should be allowed to remain as they were. In selecting a date at which the exemption he was about to prope should be limited, he had fixed on January 1, 1887, in or r to prevent the possibility of companies being newly

form before the Act should become law.

MIVELLS: Co-operative societies will ask for the same exemion, and will oppose you if it be not granted.

The PRESIDENT said Clause 13, as it at present stood, was

The prisions of section 30 of the principal Act shall extend and apply to cor ations, companies, and co-partnerships, and every corporation, compa and co-partnership, or any member thereof, selling or keeping open so for the retailing, dispensing, or compounding poisons or medical prescrions, shall be liable to the penalties in that section mentioned, unless very member of such corporation, company, and co-partnership shall h person duly qualified according to law to sell or keep open shop for the irposes aforesaid.

To at clause he proposed to add the following words:-

Proved always that nothing in this section contained shall extend to or affe any limited liability company which has been established for the purpos f continuing a business already legally existing in Ireland for the compoling of medical prescriptions and sale of poisons, and which has been deregistered prior to January 1, 1887, under the Joint Stock Com-

Mr VELLS said that if the right of limited liability companie to an exemption were admitted, it would be a onesided roceeding to refuse the same exemption to co-opera-

The RESIDENT: You must shut the door at some time. Dr. IONTGOMERY asked what the effect of the clauses would be on co-operative stores. Would they be allowed to go or ompounding?

The RESIDENT: The clause as it originally stands enacts that ery member of any company carrying on the dis-

pensi business must be qualified.

The Time President: Suppose you cut that clause out of the F altogether.

The PRESIDENT: It was accepted by the Council years ago. Mr. GRINDLEY said the clause was a just one, but it would be turned into an argument against them.

Mr. CHARLES EVANS: Are not co-operative stores "legally

existing "?

The PRESIDENT: I am afraid they are.

The VICE-PRESIDENT said he had much pleasure in seconding the President's motion.

Dr. MONTGOMERY said any Act that they should obtain should do away with pharmaceutical trading by co-operative stores as much as possible. They should have the interest of the Pharmaceutical Society at heart, as a first principle, independent of England or any other country. If they went on legalising those stores they might as well shut up.

The PRESIDENT: We are doing the best we can to prevent

their being legalised.

Mr. WELLS: Under what rule will such houses be carried on in future if our Bill should pass?

The President said they would come under Clause 12 of the Bill as follows :-

Every person lawfully keeping open shop for selling and retailing poisons, or dispensing or compounding medical prescriptions, shall personally manage and conduct such shop, and the retailing, dispensing, or compounding of poisons and medical prescriptions therein, or shall employ for the purpose aforesaid as an assistant or manager in such shop some person qualified according to law to keep open shop for the purpose aforesaid; and any person acting in contravention of this enactment shall for every such offence be liable to pay a penalty of 51.: Provided that in the case of partners duly qualified according to law to keep open shop for the purposes aforesaid keeping more shops than one, nothing in this enactment contained shall be construed to render necessary the employment of any such qualified assistant or manager as long as every such shop is personally managed and conducted by one of such partners.

There was another clause empowering the Registrar of the Society to apply for the name of the legally qualified assistant or manager.

Dr. MONTGOMERY said it would be still left open to limited companies to pay a small sum to a pharmaceutical chemist for the use of his name, and thus to go on grinding down the pharmaceutical profession.

The PRESIDENT: The whole object of the clauses is to prevent that being done after a certain day. We can only

fix a date and shut the door.

The motion of the President was unanimously agreed to.

THE DRAFT BILL.

A letter was read from Messrs. Casey & Clay enclosing the draft Bill and final observations of counsel. The letter stated that a Bill to amend the English Pharmacy Act had been introduced by the Earl of Milltown, and read a first time the previous week. A copy of it would be obtained by the writers as soon as it should be printed.

The PRESIDENT remarked that the English Bill was only of an educational character; but on the preceding night an amendment of it was proposed involving the same point that the Council had been discussing—namely, the qualification of managers of branch houses. As regarded their own Bill nothing now remained but to get the amendment to which the Council had just agreed made in the draft, and have the latter placed in the hands of Lord Milltown as soon as

possible.

Mr. Wells: What about approaching the Government? The PRESIDENT: Until Lord Milltown has taken our Bill in hand it would not be good taste on our part to do so. I do not think we shall be in a position to do anything with the Government until the Easter recess, when the Solicitor-General and Mr. Balfour will be here, and then we can approach them.

THE PRELIMINARY EXAMINATION.

A report was submitted from the Preliminary Examination Committee. It contained new regulations for the conduct of the Preliminary examination, including a chemical curriculum drawn up by the Vice-President and approved of by Dr. Tweedy. These regulations will meet some criticisms of Dr. Duffey in his report submitted to the January meeting of the Council. The object is to get rid of text-books, and to define exactly for the candidate the subjects in which he would be examined.

On the motion of Mr. Allen, seconded by Mr. Grindley, the report was adopted.



The following applications for Patents have been registered at the Patent Office.

Aerated Beverage, -3,171. - March 1, 1888. - A. J. M. Lisle. An aërated beverage for invalid and other uses.

Antiseptics.—1,696.—February 4, 1888.—W. Black and W. L. Rennoldson. Manufacture of antiseptics.

Brandy.—2,099.—February 11, 1888.—H. de Soberon. Liquor resembling brandy, and process for manufacturing the same.

Breast-reliever. -2,153. - February 13, 1888. - G. R. Jackson and J. Graham. Apparatus for withdrawing milk from the breasts of women.

Infusions.—1,739.—February 6, 1888.—F. Hall. Apparatus for making infusions of tea, and other like infusions.

Inhaler.—2,682.—February 23, 1888.—C. Adamson. Chemical vapour inhaler.—2,906—February 27, 1888.— J. B. Butcher. Medicinal inhalers.

Insecticides.—2,463.—February 18, 1888.—A. Booty. Composition for dispelling flies and grub from turnips and other plants.

Loofah.—2,359.—February 16, 1888.—A. Elste and F. Stoll. Treatment of loofah.

Medicated Cigars.-1,772.-February 6, 1888.-P. Jensen. Medicated cigars or cigarettes and smoking tobacco.

Oils and Varnishes.—2,344.—February 16, 1888.—W. S. Somers. An improvement in drying oils and varnishes.

—2,455.—February 18, 1888.—F. Crane. Varnishes and lacquers. ___2,509. February 20, 1888. G. Hand-Treatment of gums, fossiliferous gums, or gum resins in the manufacture of varnishes, &c.—2,512—February 20, 1888.—Ditto. And apparatus.—2,514. February 20, 1888.—Ditto. In order to effect their

Ointments, &c.-1,910.—February 8, 1888.—A. F. E. de St. Dalmas. Prepared sheets of leather and fabric for the application of ointments, lotions, poultices, and other medicaments to the human body.

Oleum Rusci.—2,870.—February 25, 1888.—E. Tuthill. An extract of oil or tar from the birch tree bark, to be used in the process of tanning or preserving hides, skins, furs, and for destroying moths and insects.

Pepper. — 2,190. — February 14, 1888. — A. Dunderdale. Manufacture of light-coloured or white pepper-corns, and also of colouring matter from black or dark coloured pepper-corus.

Phosphorus.— 1,693. — February 4, 1888. — A. Nicolle. Manufacture of phosphorus.

otassium Chlorate.—305.—January 7, 1888.—J. R Wylde, M. J. Hammill, and H. Auer. Separation of chlorate of potash from solutions thereof. ____1,560 and 1,561.-February 2, 1888.—C. N. Hake.—Manufacture of chlorate of potash.

Ringworm. -- 2,219. — February 14, 1888. —A. Campbell. Cure of "Tinea tonsurans" (ringworm of scalp) by means of gases or vapours brought and kept in contact by mcans of special apparati.

Soap (Marine). -2,303. - February 15, 1888. - O. H. von Wilke. Manufacture of soap soluble in sea water.

Sock (Medicated).-1,047.- January 24, 1888.-J. Bigford. The "Eureka" perforated, ventilating, and medicated sock.

Spirometer. - 1,746. - February 6, 1888. - J. F. Matthewson. Spirometers for testing the strength of the lungs.

Suppositories.—479.—January 11, 1888.—J. D. G. P. Gale, and W. Morgan. "Obstetric cones."

Surgical.—393.—January 10, 1888.—A. S. Faulkner. stal stethoscopes.—647.—January 16, 1888.—H. J. nge. A vagina tube shield.——1,225.—January 26, 18.— H. H. Lake.—A composition for dressing wound 2,348.—February 16, 1888.—T. Crookes. Fombination surgical knife.—2,493—February 20, 18.—T. Rogers. Trusses and materials used in their anu-

Tracheotomy.—2,337.—February 16, 1888.—F. B. bnes. Surgical and medical appliances for use in trach(pmy,

> Specifications of Patents recently published. 1886

16,979. A. W. McIlwaine. Extracting oils by volat solvents. 6d. 1887

2,297. A. and L. Q. Brin. Treating saccharin, &c.

2,298. A. and L. Q. Brin. Treating saccharin, &c.

2.738. A. Wilesmith. Feeding-bottles. 8d.

2.741. C. E. Gittins. Softening water. 8d.

2.984. J. Lakeman. Feeding-bottles. 8d.

3,667. F. Hocking. Producing fresh water from sal ater. 8d.

3,736. L. Schaffer. Abdominal belts for reducing rpulency. 8d.

3,816. J. W. Pownall. Inhaling vapour of chloride ammonium.

4,201. J. Taylor. Nitric acid. 6d.

4,203. T. Kerfoot. Dry saccharated extract of tea. d.

4,251. J. Holmes. Cap for bottles, &c. 6d.

4.578. J. Baird. Polish, &c. 6d.

5,836. K. Schulze. Administering vapours for m cinal purposes. 8d.

8,666. A. M. and J. F. Chance. Treating alkali vite to obtain sulphuretted hydrogen. 8d.

9,225. E. A. B. Béamont. Administering medicines 6d.

9,620. A. Carter. Preserving liquid mustard. 4d.

10,020. I. A. Best. Splints for fractured limbs. 8d

10,181. J. Schmitt. Surgical knives. 6d.

10,308. E. V. and E. Goad. Tooth-brushes. 8d.

10,924. H. W. Sitwell and others. Surgical water b lages. 6d.

11,462. J. Macdonald. Artificial teeth. 4d.

11,500. C. J. E. de Haën. Manufacture and applic on of the compounds of fluoride of antimony with the () rides or sulphates of sodium, &c. 6d.

11,610. J. E. Warren and F. A. Cloudman. Rec 17 of chemicals from spent liquors of pulp digesters. 1.

11,647. S. F. Smith. Combined respirator and inha 84.

12,121. E. S. Hermes. Bottle for poisonous liquids, 12,398. T. F. Edgeworth. Inhaler. 6d.

12,486. O. M. Thowless. Producing sodium and posium, &c. 8d.

12,632. J. C. Lyman. Waterproof compositions. 4 13,409. S. S. Rowell and J. W. Newell. Plumbic de or

litharge. 8d. 13,500. J. W. Tallmadge, Chemical fluid ink eraser 41.

14,308. E. V. and E. Goad. Tooth-brushes. 8d.

14,429. J. E. Darby and E. Blakeslee. Impregnating amois skin with rouge. 4d.

15,530. T. Child. Aërated beverages. 4d.

16,587. D. Howells. Embrocation for rheumatism, 16,795. J. Grossmann. Hygienic bandage for wome 6d.

17,332. M. B. Scott. Chest and body protectors. 6 17,369. H. B. Appleby. Materials for surgical dress 's, &c.

4d.

TRADE-MARKS APPLIED FOR.

Thi rade Marks Journal publishes the following notice:—"Any person bas good grounds for objection to the registration of any of the following marks may, within two months of the date of this journal, give noticin duplicate at the Patent Office, in the form 'J,' in the second scheek to the Trade Marks Rules, 1833, of opposition to such registration." The address of the Patent Office is Southampton Buildings. Lond W.O.

From the "Trade Marks Journal," March 7, 1888.

- "Heat Tonic," and figure of a heart; for a chemical preparan for use in medicine and pharmacy. By L. A. White, Percy Terrace, Moss Lane East, Manchester. 65,326.
- "GL VILLE'S HYDROSULPHATE OF IRON MIXTURE," and her wording on label; for a medicine for human use.

 F. Glanville, 317 Fulham Road, Brompton, S.W. 1999.
- "Colound Castor-Oil Lozenges," and other wording on lel; for medicated lozenges. By E. Roberts, confectaer, 270 Camberwell Road, S.E. 66,413.
- "Joh Eve & Co's 'Kelpine' Syrup" (in script); for a prepation for infants' teething. By C. Grieve (trading as Jove & Co.), 330 High Holborn, W.C. 66,909.
- "HINDLIFE"; for brushes. By W. L. B. Hinde (trading as Fde & Co.), Oxford Street, Birmingham. 68,121.
- "Azotene"; for a medicinal preparation. By J. Sellers, 3 arringdon Road, E.C. 68,264.
- "MALOCK'S KILL WASP," and other wording on label; for a reparation for exterminating Insects. By W. T. Midock, chemist, Pulborough. 68,671.
- Figure f a cake of sapolio; for a cleansing preparation and a pishing material. By E. Morgan's Son's Co., 31 Snow H, E.C. 68,740-1.
- "HAS Vo-HANA," and other wording on fancy label; for an ar le of perfumery. By J. L. Grossmith, 85 Nowgate Stet, E.C. 68,888. Also "The Verus Natura Perfuery," for perfumery (68,994); and "Emolio," for an ar le of perfumery (70,571).
- "RUSS N SAREPTA FLUID," and other wording; for a micated preparation. By W. T. Gunson and C. H. C. Bodé (trading as the Russian Sarepta Fluid Co.), 34 irkmanshulme Lane, Longsight, Manchester. 69,003.
- "MARI'S ALMOND TABLET," and other wording on round la; for a medicinal toilet preparation. By R. Honden & Sons, Berners Street, W., and City Road, E. 69,085.
- "NIGH BLOOMING CEREUS," under a crown, and "MAN-DE A," under a crown; for perfumery. By W. S. Thapson, trading as The Crown Perfumery Company, Ne Fairfield Works, Old Bailey, E.C. 69,790-1.
- "GALV to Bob," and figures on round label; for a galvanic bairy for medicinal purposes, to be placed in the heel of boot. By John Court, 136 Brompton Road, S.W. 70,0.
- "AULD CHEMICAL DUBBING"; for the same. By Wm. Au 375 High Street, Edinburgh. 70,253.

Fr. the " Trade Marks Journal," March 14, 1888.

- "ASEP"L" on label, and signature; for pharmaceutical good, Class 3. Py C. Callin, Chemist, Antwerp.
- Signatus of the depositors on round label, with motto on main; for chemical substances. (Class 2.) Medicines and erfumery. By Philip Thomas and Arden Thomas, trang as Thomas Brothers, Chemists, Cheltonham. 66,2.4.
- Advertig matter; for a whooping-cough powder. By R. sach, 30 Hatcham Park Road, New Cross, S.E. 67,3.

- "CURR'S ESSENCE OF DANDELION COFFEE," and other wording on double label; for coffee. By Thomas Curr & Co., 22 Schoolhill, Aberdeen. 67,469.
- Heraldic design, and motto, "Purity and Strength"; for mineral and aërated waters. By F. Daviss, Walsall 68,115.
- "PARANECTAR," and other wording on label; for an aërated beverage. By Gostling & Co., Diss. 68,560.
- "THE CASTLE BRAND," other wording, and figure of Edinburgh Castle; for coffee and milk, &c. "The Pyramid Brand," other wording, and figure of pyramid; for essences of coffee. By T. Symington & Co, Edinburgh and the East India Avenue, London. 68,715-6.
- "SPARKLING Non-Alcoholic," and figure on label; for aërated beverages. By Stevenson & Howell, 95A Southwark Street, S.E. 68,944.
- "Antirhagasia," other wording, and figure on label, for a preparation for chapped hands, lips, &c. By F. B. Wride, Chemist, Shirley. 69,142.
- "STEPHENSON BROTHERS' SUPERIOR FURNITURE CREAM," and other wording on label (two kinds); for furniture cream. "Stephenson Brothers' Superior Metal Paste"; for polishing paste. By G. B. Stephenson and G. Speight, trading as Stephenson Brothers, Bradford. 69,891-3.

Obituary.

DAVIES.—On March 12, Mr. John Davies, chemist and druggist, Llanybyther. Aged 50.

DUFTY.—On March 5, Mr. Samuel Dufty, homoeopathic chemist, West Street, Sheffield. Aged 46. The deceased gentleman leaves a widow and eight children. Mr. Dufty had considerable literary ability, and was the author of several poems, dealing with local and other subjects.

FOWKE.—On February 27, Mr. Thomas Edward Fowke, chemist and druggist, Market Square, Stafford. Aged 45.

GILL.—On March 10, at 193 Whitham Road, Sheffield, Mr. Henry Gill, wholesale druggist, 15 Scotland Street. Aged 68.

MURRAY.—On March 1, at her residence, 19 Temple Street, Dublin, of pulmonary congestion, Mary, relict of the late Sir James Murray, M D., and sole surviving niece of the late Charles McGarel, of Belgrave Square, S.W. Aged 75.

UDALL.—We hear of the death at Shanghai in January last of Mr. Daniel Udall, chemist and druggist, in the establishment of Messrs. Llewellyn & Co., of Shanghai. Mr Udall's death was occasioned by an attack of virulent small pox. He was about 38 years of age, and was much esteemed among the English community of Shanghai. He was well known in London and Paris pharmaceutical circles, and had lived with Messrs. Savory & Moore, Lancaster Gate; Gulliver, Lower Belgrave Street; Hartnoll & Co., Tichborne Street; and with Messrs. Roberts & Co., Paris; and lastly as manager of Mr. Hogg's pharmacy in the Avenue des Champs Elysées.

MEDICINAL PRODUCTS OF SOUTH AMERICA.—Dr. H. H. Rusby, of whose lecture on South American medicinal products before the Pittsburgh College of Pharmacy we recently made mention, has been badly misquoted by some of the Pittsburgh papers, who reported what purported to be his statements. The doctor has now published a true version of his lecture, varying in many essential particulars from that put in his mouth by the Pittsburgh reporters. The doctor's tour was undertaken in the interests of the firm of Parke, Davis & Co., of Detroit, for the purpose of investigating what new South American drugs it would be worth while to introduce into commerce. Dr. Rusby had over 300 specimens of "new drugs and remedies" submitted to him, and rejected them all but two, viz, the Pichi-Fabiana imbricata, a valuable sedative for the urinary tract, and the Cocillana-Sycocarpus Rusbyi, which has been found valuable in the treatment of certain throat diseases. This shows how great a discretion should be exercised in placing new articles upon the market.

SOME DRUGGISTS' SPECIALITIES.

Mutual assistance for this department, which is a standing feature of THE CHEMIST AND DRUGGIST, is invited from generous pharmacists.

Lime Cream (Superior).

Crême d'Am	and.		 • •	 4 parts
Glycerin.			 	 4 .,
Ol. amygd.			 	 4) ,,
Aquæ			 	 35 ,,
Perf		• •	 	 q.s. (or 1 part)

Mix (in order written) in large mortar.

Calf's Foot Cough Jelly.

Morph, acet	 		54 grs.
Acid. citric	 		216
Aqnæ	 		30 oz.
Gelatini	 		3 ,, (troy)
Glycerini	 • •		72 .,
Tinct. tolu	 		· · · · · · · · · · · · · · · · · · ·
S. V. R	 		3
Vin. ipecac	 		1 ,,
Es. vanilhe	 		1,,
Faceh. ust	 		. Q.S.
Aquæ q.s. to	 	••	108 oz.

Misce sec. art. Adult dose : 3j. to ij.

Lanolin Hair Cream.

1.	Crême d'Amand.		 	 1 drachm
	Glycerin		 ••	 1 ,.
2.	Ol. amygd		 	 6 drachms
	Lanolin		 	 doz.
	Otto de rose		 	 8 gtt.
3.	Tinet. canthar.	٠.	 	 2 drachms
	Aquæ ad a ?		 	 4 oz.

Mix, in separate mortars, the first two lots; gradually add No. 2 to No. 1, then stir No. 3 gradually in.

TULIP.

Solution Spermaceti.

Pulv. cetacci					3viij.
Sacch, alb	• •	• •			31V.
Vitelli ovi	• •				No. iij.
Aquæ destillatæ	• •	• •			3iv.
Spt. myristicæ	• •		• •	• •	zxxij.
M. secund. artem.					

Steer's Opodeldoc.

Sapo. Windsor alb.	 • •	 	3νj.
Aquæ destill	 • •	 	3viij.
Sp. vin. rect	 	 	3xvj.
Camphor	 	 	3vj.
OI. lavand. exot.	 	 	Зij.
Ol. rosemary exot.	 	 	3ij.
Liq. ammon, fort.	 • •	 	Jiij.
M. secund. artem.			

Balsam Locatelli.

Ol. olivæ opt		 		3viij.
		 		ξvj.
Ceræ flav		 		3viij.
Rass, gaan, rub.		 	• •	3j.
M. secund. artem.				

H. MACHON.

Headache Tonic, or Pick-me-up.

Caryoph			• •			3ij.
Rad. valerian.	• •				• •	3iv.
Cocci eacti						5j.
Liq. am. fort.	• •	• •				3iss.
Sp. vin. rect.						Зхіј.
Aq. destill.	• •		• •	6.6		3xij.

Macerate for a week: then add Ammon. brom. Jiss.

Potass. brom. and keep for another week. Filter, and make up to 24 oz. with water.

Dose: 2 drachms in water. Will usually relieve headache n ten minutes. (18/1.)

Chemists at Wor

WILLIAM CROOKES, F.B PRESIDENT OF THE CHEMICAL CIETY.

WE doubt if the Chemical Society cou have chosen to W their president any one in this co ry with such brilliant all-round scientific record as that the gentlema who has held that distinguished position luring the pasyear. Mr. Crookes has been a prominent d successful it



WILLIAM CROOKES, F.R.S.

vestigator in so many of the highways d by paths chemical and physical research, that it is any special character to his life work. At he is the pioneer in the region of scientif speculation; other periods in his career the manufac e of beetrosugar, dyeing and calico-printing, and the wage question have seemed to absorb his attention. Between these studies have seemed to absorb his attention. of what would he distinguished as practic subjects he ha interjected his wonderfully delicate experir ats on "radian matter," experiments which, while they see ad at first sign to lead to nothing heyond the construction the pretty by not very useful radiometer, actually made ; electric lie a possibility and a success by his demo rations of the possibility of producing and managing the ectric spark is extreme vacua. Among the scientists who have in 12000 years advanced so rapidly the utilisation of the electric light Mr. Crookes has heen eminent. In meter or graphy, and especially in the developm analysis, Mr. Crookes has also made his ma is the only living Portland. is the only living English discoverer of an enert.

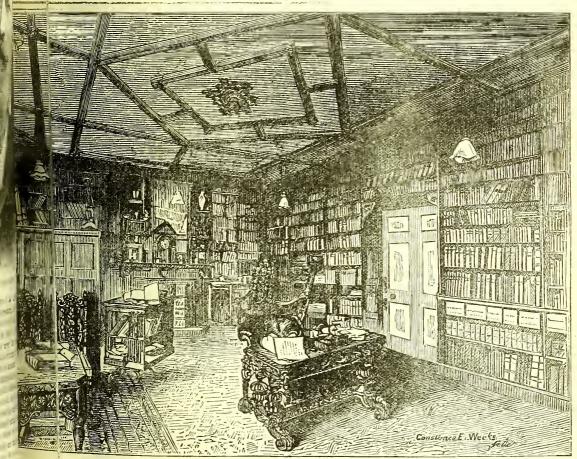
Mr. Crookes was born in London in 1 . In 1848 h entered the Royal College of Chemistry & pupil of the distinguished chemist Dr. Hofmann, now of e University of Berlin, and at the age of seventeen he gair the Ashburton Scholarship. After two years' study he bec le, first junior, then senior, assistant to Dr. Hofmann un la large ment was appointed to superintend the meteorol of the Radcliffe Observatory, Oxford. In teacher of chemistry at the Science Colleturning to London, Mr. Crookes added liter other occupations by the establishment of the which he owns and edits to this day. This urnal has been the English organ of scientific chemistry day a quarter of the English organ of scientific chemistry de g a quarter of a century richer in research than any previous period of the world's history and the world's history and period of the wor world's history, and a reference to the lon ow of volumes

ficult to assig e present tim

which is Chemical News now extends will show that the ditor has anaged, in the moderate space at his disposal, to eep the rord of both home and foreign investigation well osted up. The fact that Mr. Crookes has been left so many ears in tost undisturbed possession of the particular orner of t field of journalism which he marked out for inself nely thirty years since is evidence of the satistory che ter of his stewardship.

Besides 'e Chemical Nens, Mr. Crookes has edited the marterly wral of Science, and has published the follow-gworks: 'Select Methods in Chemical Analysis," "Manucture of let-root Sugar in England," "Handbook of Dyeing ad Calico inting," and "Dyeing and Tissue-printing"— te of the "chnological Handbooks" prepared for the examitions of e City and Guilds of London Institute. He is so joint a jor of the English adaptation of Kerl's "Treatise 1 Metallur." He has edited the last three editions of itchell's 'anual of Practical Assaying," and has trans-

put it aside. Subsequently, wanting some tellurium for experimental purposes, he endeavoured to obtain it from this residue, but after trying various methods for isolating that metal, he at last resolved to test the substance spectrally. Neither selenium nor tellurium present any strongly-marked bands which would be a certain guide in such an examination, so that not much was expected from this analysis. On introducing a portion of the residue into a gas-flame abundant evidence of the presence of selenium was obtained; but as the alternate light and dark bands due to that element became fainter, and while expecting the appearance of the somewhat similar but closer bands of tellurium, a bright green line suddenly flashed into view and quickly disappeared. The experimenter had had some years' acquaintance with most of the artificial spectra and had never met with an isolated green line in that portion of the spectrum before His attention was arrested, and after thought and further experiment he became convinced that he had found a hitherto



LIBRARY

id into En sh and edited Reimann's "Aniline and its ivatives," oner's "Chemical Technology," Auerbach's attracene id its Derivatives," and Ville's "Artificial recially the sposal of town-sewage, and his views have a laid befor the public in two pamphlets—"A Solution of Sewage Cation" and "The Profitable Disposal of owes is no investigating the sanitary condition of the studies which Mr. Crookes has been engaged.

n 1861 Mr. Jrookes announced the discovery which at made him mous among scientific men, and with which name will 'er be associated. He was working on a siferous de sit from the sulphuric acid manufactory at kerode, in a Harz Mountains. After distilling some pure seleniu prepared from this deposit a considerable idue was lef ehind in the retort. This, at the time, he posed would contain tellurium, and for the moment he

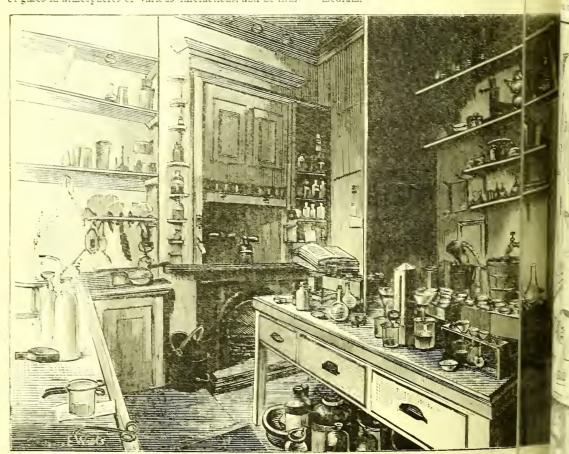
unknown element. He at first regarded it as a metalloid but further examination proved it to be a true metal. He first separated some in a distinct metallic form in September, 1861, six months after the original discovery, and in May of the following year exhibited it in the International Exhibition in He named it from the Greek word thallos, meaning London. a green bud. In special recognition of this brilliant research Mr. Crookes was elected a Fellow of the Royal Society in 1863. During the next ten years he devoted much time and patient labour to researches into the atomic weight, the occurrence, distribution, and reactions of his new element. He detected it in many kinds of copper and iron pyrites, in crude sulphur, in the flue deposits of pyrites burners, but usually in very minute quantities. In its chemical reactions thallium differs from all other metals. In many respects it resembles the alkali metals, but it is, however, most closely allied to the heavy metals, especially to lead, which it resembles in appearance, density, melting-point, specific heat, and electric conductivity.

These studies did not prevent the presecution of other investigations. In 1865 Mr. Crockes discovered a process for separating gold and silver from their ores by means of sodium amalgamation, which is now very extensively adopted, and is the most economical method in use. In 1866 he was appointed by the Government to report upon the application of disinfectants in arresting the spread of the cattle plague, which in that year excited much alarm in England. England

In 1871 he was a member of the English expedition to Oran to report upon the total phase of the solar eclipse which occurred in December of that year.

In 1872 he commenced his experiments on "Repulsion Re-In 18,2 he commenced his experiments on "hepathich he-sulting from Radiation." Numerous papers, embodying the record of researches on this subject, were read before the Royal Society between this date and 1880. In these Mr. Crookes showed the effect of light and heat on the molecules of gases in atmospheres of various rarefactions, and he illus-

At one time in his career—about the ye 1871-M Crookes entered upon an investigation which eated great interest, but in which he failed to satisfy the satisfe warb of the accuracy of his observations. Mr. Hon the famous spiritualist, submitted himself, and the majorations a which he was at times the subject, entirely tolr. Crockes analysis. In an article published by the latt be declare his belief that certain phenomena observed collect be deto tricks. legerdemain, or mechanical arrangeouts, and be proposed the term "psychic force" not as an olaration of our as a convenient definition, for such manifestions. Some smart conflicts followed this remarkable declaron, in which from a literary point of view, Mr. Crookes ce inly did a get worsted. We believe that we are cont in abid that Mr. Crookes has never abandoned his the either Mr. Home or in psychic force, and he is a ays ready chivalrously defend the good faith of the late zon



CHEMICAL LABORATORY.

trated his observations by the "radiometer" and the "othecscope," instruments of great beauty and delicacy. He showed that it was possible to measure the force of motion among the molecules of gases, and incidentally he showed how to produce vacua of far greater rarefaction than had ever before been obtained. He reduced air to fifty millionth of an atmosphere, and in a cubic centimetre of such an atmosphere he computed there were contained no less than 20 billions of molecules. Later still he showed that gases when very highly rarefied lose most of the ordinary properties of matter, and pass into a fourth or ultra-gaseous cendition.

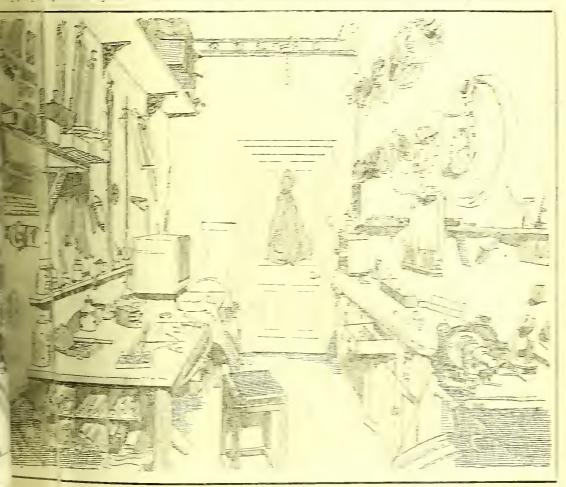
In 1875 he was awarded by the Royal Society a gold medal for his researches in chemical and physical science, and in 1877 and 1878 was selected Bakerian Lecturer of the same society. In 1880 the French Academy of Sciences bestowed upon him a gold medal and an extraordinary prize of 3,000f. in recognition of his discoveries in molecular physics and radiant matter.

Some time since we had occasion to call u Mr. Can at his handsome residence in Kensingtor at Girl Chemistry and its associate sciences have identif liberally with their suitor in this case, as e found surrounded with luxury enough to enervate 2 but the redetermined student. His house is well now it electrical world, as it was one of the first whe ex light was given a fair chance regardless of e 120, and great extent the wires were laid by his own l ds. The beauty of the fairy light can be turned cto ET through the house, and associated as it is it the artistic decorations and furniture, his root or responsible present an appearance of refined same suggests, we hope, a future of general domes beauty in advance of our present standard as ours is lead of of the tallow-candle era. Mr. Crookes hims we to he tallow candle era. spacious room on the first floor, intended baily by architect for a billiard room, but now dedica to like science, and art.

nous its pand the mount adjoining Mr. Crocker spends a passer in of his life. In its not assumenting if the new a good fine life, he is not assumenting if the new a good of his lifeary, for it is unity a magnificant in the growth of his lifear and a conformable. It was true and at the presentation of the state and a familiar in as been study his in all a familiar are of asin, the manual-posts being it as more saint as the shelling, and the "hooks" of a pass if minute are unliked as memorate continent one of these in his literary, but there are few intown in as populated discount, but there are few intown in as populated discount, and all are learned and armitered according to make the source make the source as the third with the source make, said division being learned and a many high by three large windows, aloss of one of

other specimens upon vincin the owner has at the time or taker spent time and money. We have already sponer of Mr. Conders would with the electric light. The of the specimens in this glass case reminists as of the very in which he consurquest the terrior flament for the glow lamps. Some may smow in two in the worth telling. The great flashwanters of many terrior flaments is that they possess the entroune of the substance from which they possess the entroune of the substance from which they are made. Mr. bronces whether the dry flash undy tellinises in a surger solution of ammonia-triple subplicate this solution is fined in places, whether our and sheet remains a home-like material, which in the grow may singly and territories i firms excellent and some discussions.

Agent passing through the library we come to a sume of three againments in which Mr. Produces researcher are publicated the room a device; to crimary therefore when



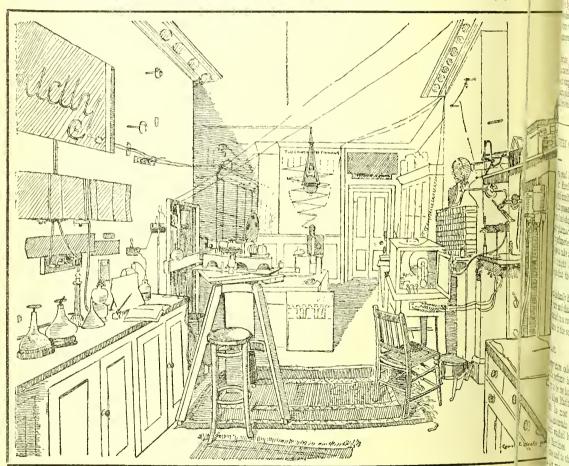
WEITE HALL LA LAT. S.

mule a medicus semenaire manuficus a fev source en le pr vin neerly-arranged papers & and married the most instructive te-मोलाह केट हामके वेस्त्रों मोते. There is not the manner is the come for sciencial little the limited that the track the broken ber to and the state of the second of the second of the THE PERSON OF THE PERSON PROPERTY. to make he are street or emergine a large and the manus and since to not window secure from them. The Manual transition of the same of the s THE REPORT OF THE PARTY PROPERTY. THE DO SHOW THE STREET WHILE ! ince a fine will address at the first and the THE HARM SET . LIMITED SETS. THE SETS. and a Continued and the Continued and some

ELICIDES IS STORY THE THEOREM AND THE THE TOTAL STORY STORY STORY AND STORY STORY AND STORY STORY AND STORY STORY

in the centre is a larger bench, at which the various fractionation operations, such as solution, filtration, and evaporation, are performed. The east wall of the room is occupied with a fume chamber and sink, the latter of which is provided with numerous dripping racks. The reagent shelves are on the opposite walls. All the bottles are made of what is called the "David Forbes" glass, which is less readily attacked by solutions than any other kind of glass. Mr. Crookes, however, has to get his bottles specially made; they are shoulderless, and the stoppers have mushroom tops, which is a very convenient form, as it keeps the neck of the bottle free from dust and provides good leverage for the removal of the stopper. Most of the work done in this room is in the nature of fractionations, and each stage of an experiment, with its results, and the time at which the work was done, are recorded in a substantial and large-sized laboratory-book. We found from the note in

From the chemical laboratory we pass into the mechanic room. This is fitted with benches for glass and real work, a the apparatus, such as vacuum tubes for the pectroscor examination of radiant matter, and the L-sped wedge tubes for examining fractionation solutions, lng made the premises. It is the physical laboratory, or he west side of the mechanical room and opening into the rary, which is the most interesting room. Here are kepta the space specimens of all important substances ad solution which have been the bases of theories promuted by M Crookes during the past quarter of a century. ch specimis packed in a box. The principal use of thi aboratory for spectroscopic work, and this may be said be of the kinds—(1) preliminary observations of abso ion spectr (2) observations of the electric spark in vacua and (3) of roborative observations with a very fine instruent. As so as a fractionation of a substance, say yttria finished,



PHYSICAL LABORATORY.

this book, made on the merning that we visited the laboratory, that the 714th fractionation of yttria was being worked at, and we traced this set of experiments as far back as 1881, and yet had not exhausted the record; the fact is that all the work which Mr. Crookes has done has had a common origin. The selenocyanides created intimacy with selenium; a seleniferous deposit yielded him the element thallium; the spectroscopic study of that led to various optical researches, which required vacuum apparatus. A practical knowledge of the latter naturally induced Mr. Crookes to study the possibilities of the glow lamp when electric lighting became a craze; and so the work has gone on. One can scarcely see the connection between many of the papers. What, for instance, has the photography of the moon to do with the genesis of the elements? Apparently nothing; but a search of Mr. Crookes's note-books shows that both subjects are natural outcomes of his lifelong research.

tubeful of the solution is at once taker to the p laboratory and examined with the small ectrosco lines are observed and mapped down by a observed a note of the observation made. In the hundreds of such observations with the e earth Mr. Crookes has been enabled to show the y fraction the indicate of the indica the individual bands of the half-dozen or one which stitute the absorption spectrum of that be are sep and he has so separated yttria into indivic lyttrias are chemically identical, but molecular ifferent. work with the spark spectrum is carried very emforthere are several installations of electity in the which can be utilised at any moment and very little Thus the spectrum of samarium, the res al glow ruby, or any other physical experiment of is nature rally requiring extensive preparation and charge be shown as casily and quickly as the exist ace of a sulphate can be proved in any solution.

Prookes b to use his finest spectroscope, for by long rience he d his alter ego know so well what the smaller indicates lat the large instrument has only to be aled to wa a paper for some scientific society has to ritten. I this physical laboratory are also placed the ellous Spigel pumps, with which Mr. Crookes has prothe great degree of rarefication known.

ork in the laboratories is daily carried on as if it were oratory at ched to a commercial house. The assistant s at a fixehour every day, and puts in an honest day's If he aks off at any time his notes in the labora-books sho how far the experiment has advanced, and it can be aken up by Mr. Crookes and finished with ct knowle e of what has preceded. So also in the ite sense. t is obvious that this complete system of taking my materially simplify what is generally a lous proce viz., transmitting facts and figures into an igible par or reasonable hypothesis. So simple, indoes the peess become that Mr. Crookes, gifted with entive meory, sits down when the notes become inous, and repares a monograph or one of a series of s for the Hal Society.

s not possile to do adequate justice to the work and rs in the private laboratories; but perhaps details secondary mportance in comparison with the virtues have actued this modern philosopher in his labours,

continuity, ethod, and Perseverance.

THE FIWER INDUSTRY OF GRASSE.

APER on the Subject was read before the Chemists' assistants' association on March 8 by Mr. F. W. ck, and wa istened to with much interest.

Warrick fir apologised for presenting a paper on such clous subjects men who had shown themselves such advocates the higher pharmacy, of the "ologies" erence to proceries, perfumeries, and other "eries." perfumery uld not hope to take an elevated position materiæ pl maceuticæ, it might be accorded a place adjunct, if y on the plea that those also serve who tand and wa

Warrick medioned that his family had been connected his industryor many years, and that for many of the in the papele was indebted to a cousin who had had y years' praccal experience in the south, and who was

GRASSE

town of Grise is perhaps more celebrated than any for its connection with the perfume industry in a prowhich is itse well known to be its home.

the departent of the Alpes Maritimes, forms the eastern con of France. Its most prominent geo-cal features e an elevated mountain range, a portion Alps, and ong seaboard washed by the Mediter-

-whence the name Alpes Maritimes.

calcareous is round Grasse and to the north of Nice re or less te, though they were at one time well 1; the reaffesting of these parts has, however, made great progri. Nearer the sea vegetation is less rare, ere many a montory excites the just admiration of itor by its with of olives, orange and lemon trees, oriferous s ibs. Who that has ever sojourned in ovince can onder that Goethe's "Mignon" should dently desir a return to these sunny regions? ors on these lores on the first day of this year found

's lines more oetical than true-

Where a wi ever soft from the blue heaven blows, And the gressare of laurel and myrtle and rose;

y gathered and their fires and coughed and groaned us, and enterined each other with accounts of their s. But this as exceptional, and the climate of the arthy can b the whole as near perfection as anyThis, however, is not due to its latishappy protection from the north by ing bathed on the south by the warm
tranean and seef the correction from the warm tranean and seef the correction of the correction wind (which tranean and soft breezes of an castern wind (which ly there bea a different reputation to that which it does with us). The mistral, or cold breeze from the bills, is indeed the only climatic enemy, if we except an occasional

The town of Grasse itself is situated in the southern portion of the department, and enjoys its fair share of the advantages this situation affords. It is about ten miles from Cannes (Lord Brougham's creation), and, as the crow flies, twenty-five miles from Nice, though about forty miles by rail, for the line runs down to Cannes and thence along the shore to Nice.

Built on the side of a hill some 1,000 feet above the level of the sea, the town commands magnificent views over the surrounding country, especially in the direction of the sea, which is gloriously visible. An abundant stream, the Foux, issuing from the rocks just above the town, is the all-productive genius of the place; it feeds a hundred fountains and as many factories, and then gives life to the neighbouring fields

and gardens.

Mr. Warrick exhibited a number of fine photographs of Grasse, from one of which the view on the following page is taken. It shows Grasse from the south-west. The first square tower on the left-which does not show up so well in the engraving, the ground behind it being too dark-is the only building of Roman origin which has survived the several occasions of total destruction which the town has experienced at the hands of invaders. The second tower, with a belfry, is the parish church. This used to be a cathedral, with a bishop's palace adjoining. The bishop's palace has been secularised, and is now the town hall. So, also, has the neighbouring building, from which arises the high chimney which shows up against the sky; this was once a nunnery, then a monastery, and is at present Messrs. Warrick Frères' factory. In the foreground are olive trees in a rather wild condition, and terraces of jasmin plants set out in rows.]

The population of Grasse is about 12,000, and the flora of

its environs represents almost all the botany of Europe. Among the splendid pasture lands, 7,000 fect above the sea, are fields of lavender, thymc, &c. From 7,000 to 6,000 feet there are forests of pine and other gymnosperms. From 6,000 to 4,000 feet firs and the beech are the most prominent trees. Between 4,000 and 2,000 feet we find our familiar friends the oak, the chestnut, cereals, maize, potatoes. Below this is the Mediterranean region. Here orange, lemon, fig, and olive trees, the vine, mulberry, &c., flourish in the open, as well as any number of exotics, palms, aloes, cactuses, castor-oil plants, &c. It is in this region that nature with lavish hand bestows her flowers, which, unlike their compeers in other lands, are not born to waste their fragrance on the desert air or to die "like the bubble on the fountain," but rather (to pharaphrase George Eliot's lofty words) to die, and live again in fats and oils, made nobler by their presence.

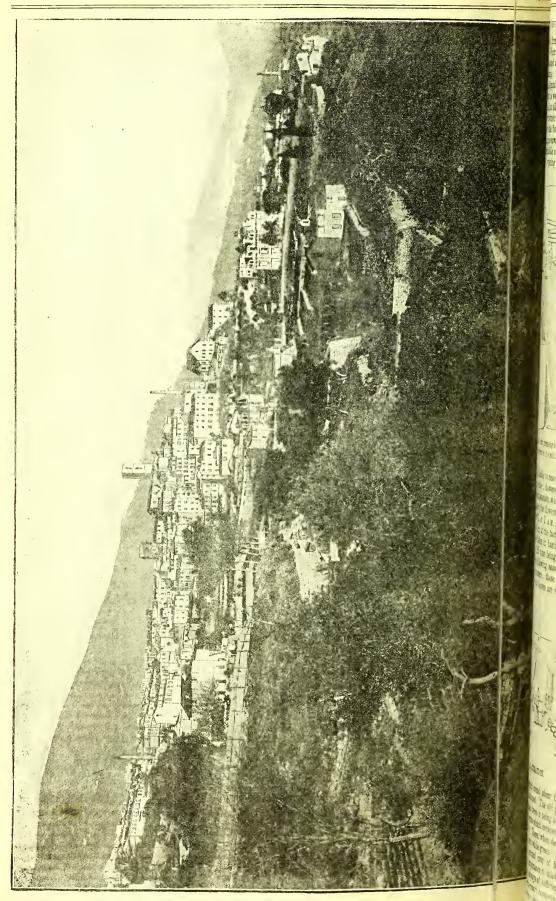
The following are the plants put under contribution by the perfume factories of the district, viz., the orange-tree, bitter and sweet, the lemon, eucalyptus, myrtle, bay-laurel, cherrylaurel, elder; the labiates: lavender, spike, thyme, &c.; the umbelliferous fennel and parsley, the composite wormwood and tarragon, and, more delicate than these, the rose, geranium, cassie, jasmin, jonquil, mignonette, and violet.

THE PERFUME FACTORY.

In the perfume factory everything is done by steam. Starting from the engine-room at the bottom, the visitor next enters the receiving-room, where early in the morning the chattering patois-speaking natives come to deliver the flowers for the supply of which they have contracted. The next room is occupied with a number of steam-jacketed pans, a mill, and hydraulic presses. Next comes the still-room, the stills in which are all heated by steam. In the "extract' department, which is next reached, are large tinned copper drums, fitted with stirrers, revolving in opposite directions on vertical axes. Descending to the cellar—the coolest part of the building—we find the simple apparatus used in the process of enfleurage. The apparatus is of two kinds. The smaller is a frame fitted with a sheet of stout glass. A number of these, all of the same size, when placed one on the top of the other, form a tolerably air-tight box. The larger is a frame fitted with wire netting, over which a piece of molleton is placed. The other rooms are used for bottling, labelling, &c.

The following are some of the details of the cultivation and extraction of perfumes as given in Mr. Warrick's paper:-



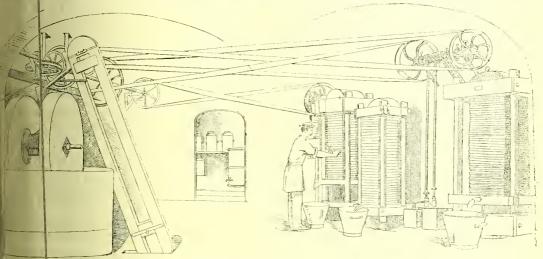


ORANGE PERFUMES.

orangeti is produced from the pip, which is sown heltered upvered bed. When the young plant is about high it i ransplanted, and allowed a year to gain the in its w surroundings. It is then grafted with a from the ortugal or Bigaradier. It requires much n the first v years, must be well manured, and during mmer well atered, and if at all exposed must have its covered up ith straw in winter. It is not expected to a crop of fivers before the fourth year after trans-ation. Theowering begins towards the end of April asts throug May to the middle of June. The buds are when on e point of opening by women, boys, and

derful productions, the flowers, the leaves, and the fruits of the orange-tree, at the factory, man has to do the rest. He does it in the following manner:-

The flowers are spread out on the stone floor of the receiving-room in a layer some 6 to 8 inches deep; they are taken in hand by young girls, who separate the sepals, which are discarded. Such of the petals as are destined for the production of orange-flower water and neroli are put into a still through a large canvas shoot, and are covered with water, which is measured by the filling of reservoirs on the same floor. The manhole of the still is then closed, and the contents are brought to boiling point by the passage of superheated steam through the coils of a surrounding worm. water and oil pass over, are condensed, and fall into a



left mill for ching almonds and pressing olives. The arrangement on the right of the mill is an Archimedean serew covered in, by which the eds are delivered to the mill. On the right by draulic presses for pressing residual fat or oil from flowers.

ho make usef a tripod ladder to reach them. These s carry the uits (or, rather, flowers) of their day's o a flower ant or commissionare, who weighs them, them out ir cool place (the flowers, not the villa-here they nain until 1 or 2 A M.; he then puts lo sacks, an delivers them at the factory before the risen Th are here taken in hand at once; on hal days a many as 160 tons being so treated in e province. After the following season, say end of he farmers rune their trees; these prunings are to the factor, where the leaves are separated and florentine receiver, where the oil floating on the surface remains in the flask, while the water escapes through the tube opening below. A piece of wood or cork is placed in the receiver to break up the steam flowing from the still; this gives time for the small globules of oil to cohere, while it breaks the force of the downward current, thus preventing any of the oil being earried away.

The first portions of the water coming from the still are put into large tinned copper vats, capable of holding some 500 gallons, and there stored, to be drawn off as occasion



PROSS OF MACERATION.

g the autum the ground round about the trees is clearly about the orange trees is being abandoned. in the year ose blossoms which escaped extermiave develope nto fruits. These, when destined for luction of theil, are picked while green

orange trees roduce a second crop of flowers in sometimes o sufficient importance to allow of their ken to the foories, and always of sufficient imporpr vide brid with the necessary bonquets

e having beerhus assisted to deliver these her won-



PROCESS OF ENFLEURAGE.

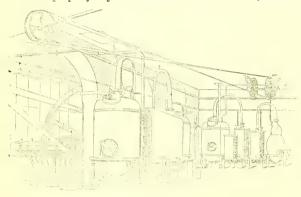
may require into glass carboys or tinned copper bottles. This water is an article of very large consumption in France; our English cooks have no idea to what an extent it is used by the chefs in the land of the "darned mounseer."

The oil is separated by means of a pipette, filtered, and bottled off. It forms the oil of neroli of commerce; 1,000 kilos. of the flowers yield 1 kilo. of oil. That obtained from the flowers of the Bigaradier, or bitter crange, is the flower and more expensive quality.

The delicate scent of orange-flowers can be preserved quite unchanged by another and more gentle process—viz., that of maccration. It was noticed by some individual, whose name has not been handed down to us, that bodies of the nature of fat and oil are absorbers of the odour-imparting particles exhaled by plants. This property was seized upon by some other genius equally unknown to fame, who utilised it to transfer the odour of flowers to alcohol.

Where oil is used it is the very finest olive, produced by the trees in the neighbourhood. This is put into copper vats holding about 50 gallons; 1 cwt. of flowers is added. After some hours the flowers are strained out by means of a large tin sieve. The oil is treated with another hundredweight of flowers, and still another, until sufficiently impregnated. It is then filtered through paper until it becomes quite bright; lastly it is put into tins, and is ready for exportation or for use in the production of extracts.

Where fat is employed as the macerating agent, the fat used is a properly adjusted mixture of lard and suet, both of



STEAM-HEATED STILLS.

which have been purified and refined during the winter months, and kept stored away in well-closed tins.

One cwt. of the fat is melted in a steam-jacketed pan, and poured into a tinned copper vat capable of holding from 5 to 6 cwt. About 1 cwt of orange-flowers being added, these are well stirred in with a wooden spatula. After standing for a few hours, which time is not sufficient for solidification to take place, the contents are poured into shallow pans and heated to 60° C. The mixture thus rendered more fluid is poured on to a tin sieve; the fat passes through, the flowers remain behind. These naturally retain a large amount of macerating liquor. To save this they are packed into strong canvas bags and subjected to pressure between the plates of a powerful hydraulic press. The fat squeezed out is accompanied by the moisture of the flowers, from which it is separated by skimming. Being returned to the original vat, our macerating medium receives another complement of flowers to rob of their scent, and yet others, until the strength of the pomade desired is reached. The fat is then remelted, decanted, and poured into tins or glass jars.

To make the extrait the pomade is beaten up with alcohol



THE ECUEILLE.

in a special air-tight mixing-machine holding some 12 gallons, stirrers moved by steam-power agitating the pomade in opposite directions. After some hours' agitation a creamy liquid is produced, which, after resting, separates, the alcohol now containing the perfume. By passing the alcohol through tubes surrounded by iced water, the greater part of the dissolved fat is removed.

These are the processes applied to the flowers. The leaves are distilled

only for the oil of petit-grain. This name was given to the oil because it was formerly obtained from miniature orange

fruits. From 1,000 kilos, of leaves 2 kilos f oil are a tained.

The oil obtained from the fruit of the oran the lemon, is extracted at Grasse by rolling to orange of the pricks of an equeille, an instrument with a ollow hand into which the oil flows. The oil is sometirs taken up a sponge. Where the oil is produced in larg quantities, at Messina, more elaborate apparatus is emptyed. A fragrant oil is obtained by distilling the raspics of the right.

THE EUCALYPTUS, MYRTLE, &

Of later introduction than the trees of the ange famil the Eucalyptus Globulus, which, not being ze to comwith the former in the variety of nasal titi lions it grise to, probably consoles itself with comi off the tinct victor in the department of power and petration leaves and twigs of this tree are distilled for in large demand on the Continent, the fact ohere hely other species than the globulus in the neight thood heiguarantee of the uniformity of the product.

Whereas the euealyptus is but a new-comer these region another member of the same family, the compun myrtle date its introduction many centuries back. It oil is dist

from its leaves, and also a water.

Associated with the myrtle we find the leaves of the laurel, forming the victorious wreaths of the ncients. oil produced is the oil of bay-laurel, oil of set bay. must not be confounded with the oil of by Indies, the produce of the Myrcia acris; recherry-laurel, a member of yet another fami which are sometimes substituted for those of the leaves of this plant yield the cherry-laurel water of B.P. It can hardly be said to be an article perfumer, also yields an oil.

Another water known to the British Phari cope a la produced from the flowers of the elder, which parishes rabout Grasse.

The rue also grows wild in these parts, and distilled

THE LABIATES.

The family which overshadows all others of essential oils which it puts at the disposa and their neighbours is that of the Lat among these we have the lavender, spike, t mary. These are all of a vigorous and h y nature require no cultivation.

The tops of these plants are generally tilled in under contract with the Grassc manufacture by the vill in the immediate vicinity. The higher the tude at these grow, the more esteemed the oil. Sinest lavender is produced by distilling the flow only. 100 tons of lavender, 25 of spike, 40 of the and rosemary are sent out from Grasse every year.

rosemary are sent out from Grasse every yea

Among the less abundant labiates of the melissa, which yields, however, a very fragre
In the same family we have the sage a common basil, also giving up their essentiable on (

THE UMBELLIFERS.

Whereas the flowers of the labiate family: treated distillers as favourites are by the gods, an re cut their youth, those of the Umbelliferæ are al red to m and develope into the oil-yielding fruits. Its presenta the fennel and parsley, grow wild round abo the towleave laid under contribution by the manufact its.

The Composite are represented by the remwood tarragon (Estragon).

THE GERANIUM.

Oil of geranium is produced from the rogeranium, cuttings of which are planted beds in October. During the winter they with straw matting. In April they are taken in rows in fields or upon easily irrigated teres, of they require quantum sufficit; of Nature's creating they require quantum sufficit for Nature's creating they require quantum sufficit for Nature's creating they require quantum sufficit for Nature's creating they require quantum sufficient for Nature's creating they require quantum sufficient for Nature's creating they require they require quantum sufficient for Nature's creating they require they require quantum sufficient for Nature's creating they require th

THE ROSE.

d to the of geranium in odour are the products of e. The He de Provence is the variety cultivated. own on ge e slopes facing the south east. Young are taken m a five-year-old tree, and are planted in which has sen well broken up to a depth of 3 or 4 rows like nes. When the young plant begins to out the pof it is cut off about a foot from the During first year the farmer pieks off the buds pear, in or that the whole attention of the plant taken up i leveloping its system. In the fourth or ear the tr is in its full yielding condition. The ag begins a ut mid-April, and lasts through May to one. On see days as many as 150 tons of roses are d in the pronce of the Alpes Maritimes.

ouds on the pint of opening are picked in the early g. Scott se they are "sweetest washed with morn-v"; the p haser may think otherwise where the

s to be paid r.

flowering soon over, the trees are allowed to run In January by are pruned, and the branches left are d from tree tree all along the line, and form imble fences.

e-tree will e to a good age, but does not yield fter its seven year. At that period it is dug up and nd corn, potoes, or some other crop is grown on

l for twelve onths or more.

factory the petals are separated from the calyx, distilled wit water for the production of rose water otto. For production of the huile and pomade treated by ceration. They are finished off, howthe proces of enfleurage, in which the frames lluded to are nade use of. The fat, or pomade, is n to the gla on both sides. The blossoms are then trewn on to e upper surface. A number of trays are placed c, on the top of the other to a conleight, form; a tolerably air-tight box. The next ld flowers e removed, and fresh ones are subor them. Is is repeated until the fat is sufficiently ted. From ne to time the surface of the absorbent ed by serrang it with a comb-like instrument. ourse, is nec sary in order to give the hungry nonlower layer, chance of doing their duty.
oil is the all rbent, the wired frames are used in

n with cloth The cloth acts as the holder of the he flowers spread upon it, and the process is lin the sam way as with the frames with glass.

he pomade the extrait de rose is made in the same e orange ext it.

CASSIE.

onger, thoug less delicate, cassie is grown from ch are con ned in pods which betray the conthis plant wh the leguminous family. After being water they e sown in a warm and well-sheltered en two feet igh the young plant is grafted and ed to the op ground—ground well exposed to the lettered from he cold winds. It flourishes best in bourhood of rasse and Cannes. The season of s from Octor to January or February, according lence or absert of frost. The flowers are gathered veek in the laytime, and are brought to the the evening. They are here subjected to mace-

JONQUIL.

of humbler owth is the jonquil. The bulbs of out in rows The flowers put in an appearance and of Marc four or five on each stem. Each cked off at the calyx. They are maceration at enfleurage, chiefly the latter. The period of th jonquil is of very short duration,

takes two sons for the perfumer to finish off
les of extra trength. The crop is also very

JASMIN.

eliable crop i hat of the jasmin. This plant is cuttings of wild jasmin, which are put into ncws with sillside only available, this is formed into a hillside only available, this is formed into a

series of terraces. When strong enough the young stem is crafted with shoots of the Jasninum grandiflorum. The first year it is allowed to run wild, the second it is trained by means of rods, canes, and other appliances. At the approach of winter the plants are banked up with earth to half their height. The exposed parts then die off. When the last frost of winter is gone the earth is removed, and what remains of the shrub is trimmed and tidied up for the coming season. It grows to four or five feet. Support is given by means of horizontal and upright poles, which join the plants of one row into a hedge-like structure. Water is provided by means of the ditches already mentioned. When not used for this purpose the trenehes allow of the passage of women and children to gather the flowers. These begin to appear in sufficient quantity to repay collecting about the middle of July. The jasmin is collected as soon as possible after it blooms. This occurs in the evening, and up to about August 15 early enough for the blossoms to be gathered the same day. They are delivered at the factories at once, where they are put on to the chassis immediately; the work on them continuing very often till long after midnight. Later on in the year they are gathered in the early morning directly the dew is off. The farmer is up betimes, and as soon as he sees the blossoms are dry he sounds a bugle (made from a sea shell) to announce the fact to those engaged to pick for him.

TUBEROSE.

The tuberose is planted in rows in a similar way to the The stems thrown up by the bulbs bear ten or twelve flowers. Each flower as it blooms is pieked off. The harvesting for the factories takes place from about the first week in July to the middle of October; there is an abundant yield, indeed, after this, but it is only of service to the florist, the valued scent not being present in sufficient quantity. The flowers are worked up at the factory directly they arrive by the enfleurage process.

MIGNONETTE.

The $r\acute{e}s\acute{e}da$, or mignonette, is planted from seed, as here in England. The flowering tops are used to produce the huile or pomade.

VIOLETS.

Last in order and least in size comes the violet; for "the flower of sweetest smell is shy and lowly," and has taken a modest place in the paper.

Violets are planted out in October or April. October is preferred, as it is the rainy season; nor are the young plants then exposed to the heat of the sun or to the drought, as

they would be if starting life in April.

The best place for them is in olive or orange groves, where they are protected from the too powerful rays of the sun in summer and from the extreme cold in winter. Specks of violet appear during November; by December the green is quite overshadowed, and the whole plantation appears of one glorious hue. For the leaves, having developed sufficiently for the maintenance of the plant, rest on their oars, and seem to take a silent pleasure in seeing the young buds they

have protected shoot past them and blossom in the open.

The flowers are picked twice a week; they lose both colour and flavour if they are allowed to remain too long upon the plant. They are gathered in the morning, and delivered at the factories by the commissionaires or agents in the afternoon, when they are taken in hand at once.

The products yielded by this flower are prized before all others in the realms of perfumery, and cannot be improved; for, as one great authority on all matters has said: "To throw a perfume on the violet . . . were wasteful and ridiculous excess."

THE STUDY OF PERFUMES.

Mr. Warrick then concluded his paper in the following words:—I have endeavoured, I fear very unsuccessfully, to place before you a picture of the flowery land of Grasse, and of the methods adopted by the Grassois to enable us less favoured Northerners to participate in the benefits accorded them by nature. But to do real justice to the philanthropic exertions of the villagers and manufacturers one requires to have spent a holiday among them; then will their jasmin not remind him only of pomade, nor their rosewater only of cold-cream. For it is all a matter of association.

To many of us who look back with pleasure upon our student days even H₂S has its charms, and it is just possible that new standards of sweetness and foulness are being evolved in our rapidly advancing species, now that the essences of things are being dissociated from the things themselves. Bad odours, say the hygienists, are not necessarily bad in themselves, but are to be avoided on account of the bad company they keep. But, thanks to this scientific age, bad company is not confined to bad odours; the pharmacist knows how to combine arsenic with lavender and lime with rose; and we do not need to name our authority when we say that things are not what they seem.

Thus the natural functions of the nose become of no avail. Our most prominent organ has to take a back seat—truly, indeed, this is a case of the first becoming the last. The day may not be far distant when its only function will be to carry our second eyes, but for this it might die out from disuse, and thus end the industry of Grasse. Before that day arrives, however, I fear it will have fallen a victim to a deadlier foe. The test-tube wielding tribe are waxing strong, and have slain many a homely industry. Would that each recruit to that army could look back upon a holiday spent at Grasse; then, maybe, when able to deal the blow he would forbear, and have some pity, some compassion, on

If the chemist, like the schoolmaster, is abroad in the present day, I hope that, as far as perfumes are concerned,

he will remain there.

The other day at St. Andrews Mr. Balfour entered a vigorous protest against the systematic study of English literature, "Why should we brush off the bloom and freshness," said he, "from the works to which Englishmen and Scotchmen most naturally turn for refreshment?" I fear any protest on my part against the systematic study of odours, and against the brushing off of the bloom and freshness of scents culled from nature's laboratory, by distilling them from blossoms yet to form on the many-branched coal-tar tree, would avail little, and might be regarded as an interested protest. Still let us hide their base origin, if such arise, for we must remember that when it was written that a rose by any other name would smell as sweet chemical nomenclature had not been invented. Imagine a young lady asking for some "essence of the methyl-ether of proto-catechuic aldehyde—not too much of the methyl, please"; or complaining of the ethyl or other radicle not being linked to her favourite carbon in the chain.

Gentlemen, I fear I have had nothing to tell you you did not already know; for you are so fortunate as to have had a training forced upon you which makes you familiar with all the products you handle. There are some who think such training unnecessary. I am not one of those. I hold it nobler to court battle with the difficulties that arise in the path of an advancing civilisation, and to develop new resources and new faculties to meet these, rather than to rely, like the oyster, on a thick shield of ignorance; for while it is true this preserves the life within from many a death dealing blow, it at the same time shuts out all knowledge of the infinite beauties of this world. And Mr. Goschen has recently encouraged us to consider the cultivation of an intimate acquaintance with and a love of one's business as no mean thing; but in a more lasting, stirring form has Schiller embodied the same message in that grand production of his—"The Song of the Bell." Perhaps here we see where the seed was laid which has borne such fruit in the shape of Germany's able business men. For poets point the way which nations follow. To put Schiller's words into English-

> To him who views his work aright, An earnest word comes not amiss; A task, indeed, is a delight When happy words accomp'ny it.

So let us well consider this, What feeble forces can create; That wretched man, indeed, despised should be, Who ne'er thinks o'er what he doth make.

'Tis that, indeed, which makes the man, And, therefore, reason is his part; That of his work the gist and plan Should stir him in his inmost heart.

Trade Hotes.

MESSRS. THOMAS, WAKEHAM & Co., of 6 Leader Street, are introducing the "Tiger" brar of chlore (Dr. Henry's), a special feature of which is at it is pr in stoppered bottles.

MESSRS. LOW, SON & HAYDON, wholesa perfumerremoving on February 19 from the prems, 330 St which they have occupied for over three-q rters of a tury, to new premises, at 81 Great Queen reet, Lin Inn Fields.

WE have received a sample of the extra of herbs by Mr. B. Adams, of Mansfield. The extra is for m herb or botanic beer, and is possessed o reat dep colour, together with an exceptionally gol flavour. extract is neatly put up to retail at popular ices.

MR. B. KÜHN, of 36 St. Mary-at-Hill, t agent in country for the Papain Finkler, is now supplying medicine in small flat bottles containing 2 50, or 10 of either 1 or 2 grains each. The pills a as well as they can be, are gelatine coated, and he hottle easily be carried in the waistcoat pocket.

MESSRS. BURROUGHS, WELLCOME & Co. : now sup "toilet lanoline," a delicately perfumed art , in colla metallic tubes, six of which are attached the card, an whole fixed in a cardboard box, from which he card m removed if desired. The tubes are for reta ale at six

MR. PETER TYRER has produced a mos effective card to advertise his Royal Café sauce. The lard repr the lion and the unicorn supporting a bot of the which is, we may add, well worthy of such pport. I admirably manufactured and stylishly tur d-out six

IT will be observed from a special not made i issue by Messrs. G. & G. Stern that they ca attention fact that impure terebinthinate oils are ing offen ol. pini pumilionis, which has acquired conlerable t tion lately as a therapeutic agent. Disa pintment obvious, can only follow the use of these in ire article

"FLORADOR" is the registered title of hew food factured by the Florador Food Company, o 7 Southa Street, London, and Glasgow. Its peculia y is that manufactured from wheat, and is produced granular like sago and semolina, three grades, large, dium, an grained being supplied. It can be used for | | such po as sago, cornflour, &c., and has the advant; of cont flesh-forming, as well as merely carbonac is, comp It is also adapted for use in soups.

SOLUBLE SACCHARIN IN SCREW-CAP D BOTTI among the latest novelties for chemists hich are placed on the market by Messrs, Burrough Wellcome The bottles are of a size and shape which der then suitable to be carried in the waistcoat pock A small holding just enough to sweeten a cup o ea or of soldered to the inside of the stopper. The ottles re 2s. each, and should find a good sale ov the cond novelties.

THE COLONY OF VICTORIA imported worth of drugs and chemicals: 41,651% opi, 64,61% and colours, 668,472*l*. tea, 219,691*l*. oil all kin 30,035*l*. oilmen's stores. The exports includ: Tea, 32 soap, 13,745l.; tallow, 120,900l.; oils, 28,5

In a paper on "Terebinthinates" i the Lan March 10, Dr. Prosser James, speaking of use of " line" oil as an inhalation in catarrhal affec 18, 8278 is much milder than vapor ol. pini sylves, and is cellent addition to other inhalations, suc is creaso disagreeable odour of which it disguises. Jr. Georg in a recent report on "pumiline," states the heas for not to give rise to any kidney irritation.

lotes of Novelties.

PHEN ETIN, OR ACETPHENETIDIN.

SSRS. MAY SAKER have, we understand, come to an sement with a German patentees of phenacetin, whereby become the sole consignees for the United Kingdom the colonies Phenacetin, it will be remembered, is an yl compoun of phenetidin—in other words, an ethylic is of parat lophenol, and is represented by the unla:—

 $C_5H_4 \begin{cases} 0.C_2H_5 \\ NH.(CO-CH_3). \end{cases}$

in the forn f inodorous and tasteless crystals, feebly ble in water, little more soluble in glycerine, but easily ole in hot alool, and insoluble in acids or alkalies. As atipyretic phacetin has been found to act with marked inty in lowe g the temperature, its action being spey noteworth n acute bronchial and pulmonary affecaccompanie by high fever; even in cases of measles neuralgia it s done excellent service, and it is noticethat shiverir does not follow the exhibition of large 3. Hitherto e more important of recorded results from ise of phena in have been obtained from experiments in German ospitals, and these, we understand, are being tested id the inquiry extended by several of the notable then entists in this country, with so far adle results, we they find that the drug does not prothe undesir le secondary effects which follow the nistration of me other modern antipyretics.

IN SUPPLY FILTER.

ubjoin an en aving of an improved main-supply filter, by the Silice d Carbon Filter Company, Battersea, by 1 it will be set that various alterations have been introlin the meth of fitting the interior of the filter, and hich the company claim to have not only improved the n but to have not eased the efficiency of the filter. In improved paym the filter-case, of copper carefully 1 throughout provided with an earthenware lining, so



the filtered wer never comes into contact with the . The blocks tranged so as to secure the largest posarea of filtra n, are fitted upon a perforated metal le, and are tn surrounded with granular silicated n, a material/hich possesses remarkable absorbent ries. A perfected drain keeps the whole in position, the same tin arrests the grosser impurities, while a altap is provid, by opening which the filter is effected ansed. To addition of an inlet and outlet cap will

be at once appreciated, as by means of the latter the granular silicated carbon can be removed when desirable to cleanse it, and by means of the former it can be replaced in the filter without in any way disturbing the fixing.

THE BURROUGHS CHLORIDE OF AMMONIUM INHALER.

SOME noteworthy improvements have recently been made in this appliance which have gone far towards perfecting a combination which is one of high therapeutic merit. The tray carrying the glass bottles is now made of metal instead of wood, and the several bottles are all fitted with indiarubber stoppers. Some chemists, we are told, have found it profitable to hire out these inhalers at the rate of about



1s. a week, and many would assuredly find that one placed on a counter and properly explained by means of a card would be an attractive addition to the shop. Inhalations from this apparatus carry to the throat and air-passages an almost nascent form of chloride of ammonium in a perfectly neutral condition. This vapour is probably of great value in the treatment of bronchial or pulmonary complaints, and it is certainly of no small service in strengthening and improving the voice. It is in this latter capacity that we suggest impromptu inhalations being offered to customers. The apparatus is so constructed that perfect neutrality can be readily obtained by alterations of the tubes in the hydrochloric acid or in the ammonia bottle respectively; and other remedies, such as pinol, eucalyptus oil, &c., can be combined with the chloride of ammonium by adding these to the water in the washing vessel.

Personalities.

Mr. F. Codd, chemist and druggist, has been elected one of the auditors for the borough of Devonport.

WE regret to state that Sir Henry Acland, late President of the Medical Council, who has for some time past been suffering from serious impairment of vision and pain in the left eye, has been compelled to have the eye removed, owing to an attack of hæmorrhagic glaucoma, which the affection developed into.

MR ROBERT LOW, manager of the Royal Laboratory. Woolwich, has resigned his position. Mr. Low was severely injured at the Shoeburyness explosion in February, 1885, and might have retired on a liberal pension and compassionate allowance, but he will receive neither reward nor superannuation on resigning, and forfeits all his thirty years' service. His reason for taking the step is dissatisfaction at the refusal of the War Office authorities to increase his salary from 450l. to 500%, a year, the amount which is paid to the managers of other departments, the decision being accompanied by an acknowledgment of his long and valuable services, and an intimation that in course of time his remuneration would probably be augmented. A well-known firm of iron and stccl makers has, it is said, engaged him assuperintendent of works on a standing agreement at a salary treble the amount which he was paid by Government.

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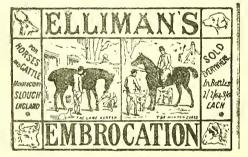
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A NEW LAMP OR CHEM AND DRUGGISTS SHOPS W the naked light entirely tected. The Weinm Paten Lamp, which has cently cr such a revolution gas ligh has now been a pted for inside and outsic shop ligh &c., and any e desiring perfection of light together enormous econor in gas, s apply, stating ruirement the WENHAM CO. imited), I Ogle Street, Loon, W., will immediately rward st Illustrated Lists Many let London Houses he adopted system.

SEE SEABURY & JOHNSON'S ADVEL SEMEN ABSORBENT COTTON LINT AND GAUZE on ge 121.

PUMILINE. - G. & G. STERN

Call special attention to their Adve sement and Special Request on pages 72, 7; bottom folio), of this Issue.



THE PHARMACY ACTS AMINDME

THE Pharmacy Acts Amendment Bill has pr ically part through the House of Lords, and will soon be ady to on its more perilous passage through the Left of the sudden flicker of interest which it creat peers last week when Lord Milltown added the clause to it seems to have died out as sudder as it forth, and the legal learning and noble wis now were led to anticipate from our lofty legislator.

vere not the new clause as it now n the Bill's heen subjected to some verbal alterat seems the still unsatisfactory in the reference to shops." hat is a branch shop? We all know own two more businesses of which it would be to disting h the branches from the original. By ndment of e 5th clause, as reported by us, it will that it is in nded that this "branch shop" clause e effect, if e Bill should pass this Session, from of January 889. It will also be observed that in t version of Bill the preamble has been omitted. w section the Bill has converted a document of I value or ierest into one which really concerns e trade. I those who conduct more shops than of direct in ortance, and to the rest the principle is worthy o areful scrutiny. The House of Lords own instale, declared for the principle of perdiffication the part of every one to whom the ent of a pl macy is entrusted. No one can say proposal is preasonable or revolutionary. It was most likelyntended by the Legislature when the Act of 186 vas passed: but the intentions of that 1y places, a ve know, have only served as pavingards the colition in which we now find ourselves he law as it present stands is strong enough if peration torevent an unqualified person selling ne new clae will prevent such an one from as the che st and druggist in a chemist's and

ider that th Jouse of Lords has quite rightly deis protection or the public, and we are sorry that aceutical (ancil should have shown so little resolving to upport the clause. It was some distto them, rhaps, to find that the co-ordinate gislation we not, as they had fondly imagined, ds, Common and Mr. Carteighe; and those of ave imbibed he notion that a curriculum is the ove all othe that pharmacy needs may reasonto any ove ading of their frail-enough craft disposed to ope that a month's reflection will hem that t principle now laid down by the rds offers ar nlooked-for opportunity of making y Act really fective in the points where it has rst. The ly clause applies only to chemists re than or open shop. Lord Milltown would urprised to rn that by simply availing them-Companies ct any seven unqualified persons en shop and all themselves chemists and drugat this is qually done within range of the t of 1868. ord Bramwell can explain to his the perfor nce is managed. By some modiwords of L Milltown's clause this can surely from the fire of January, 1889, and we are quite such an a ration, if made in the House of uld he readi agreed to by the House of Lords.

CURRICILUM AND THE SCOOLS.

remarkable solution of prospective conduct armaceutica Jouncil put on record last week chools of insuction throughout the country.

intention of he Council that the courses of any school when conducted in accordance and condits to be laid down from time to Council of the Privy Council under the provisions of the

proposed Bill—shall be recognised as qualifying courses of instruction under the said rules and conditions."

This may mean anything or nothing. It is no secret that one of the House of Commons legislators, who strongly opposed the Pharmacy Bill last session, held a brief from one of the principal metropolitan schools of pharmacy, the reason for the opposition being that the Bill gave the Pharmaceutical Society the power to refuse recognition of any school of whose teaching they might for any reason disapprove. The same condition of things holds good in regard to the present Bill, and we understand that last session's opposition from the old quarter will be maintained; hence the disposition of the Council to avert the opposition. It has been found necessary in officially reporting the proceedings of last week's meeting to publish simultaneously an explanation of the resolution in question. How far this explanation may be considered authoritative no one can tell; but it is well to let it be known as widely as possible that the "egoistic and altruistic" scribe "understands that it is contemplated to make a provision that in the case of any school desiring to be recognised as providing qualifying courses of instruction, and failing to meet with the approval of the Council, there shall be a right of appeal to the Privy Council for decision of the point at issue." This side light is far more important than the Council's own resolution, and we may well ask why this important declaration was not made by the Council itself? There has existed in the various schools of pharmacy some uncertainty as to how the Pharmaceutical Society would treat them in the event of their applying for recognition. It is not so long ago that the partisans of the Society declared that one result of a compulsory curriculum would be the extinction of one or more metropolitan schools whose success has been obnoxious to them. These declarations have been little heard of lately, but, knowing that they existed and that the persons who uttered them retain some control of the Society's affairs, right of appeal to the Privy Council becomes a very necessary thing. We might go so far as to urge that existing schools of pharmacy should be recognised as a matter of course, provided their curricula are brought into conformity with the curriculum which may afterwards be formulated; indeed, the authorities cannot in justice adopt any other course. This, however, applies only to a few institutions which are professedly pharmaceutical schools. Apart from them, there are many centres of learning available to provincial students—evening and tutorial classes conducted by pharmacists, and evening science classes—whose claims will have to be considered. The subjects of the curriculum, so far as they have been foreshadowed (see THE CHEMIST AND DRUGGIST, April 23, 1887, page 502), are chemistry (theoretical and practical), botany, and materia medica. With the exception of materia medica, these subjects are taught in the colleges and universities throughout the country on as claborate and efficient a scale as the most ardent pharmaceutical educationalist could wish. For the benefit of those who can attend such courses of instruction there should, and no doubt will, be recognised such colleges as Mason's in Birmingham; and universities, as Edinburgh, which would come under this category. It may be that the courses of instruction are not identical in certain details with what the Pharmaceutical Council may contemplate; but the similarity between them and the courses of instruction in, for example, the School of Pharmacy, is sufficiently close to warrant the recognition of the universities and colleges. It would also be highly desirable to make some recognition of the science classes conducted under the South Kensington scheme; but there are several obstacles in this case, the most noteworthy of which is the fact that the chemistry

taught in these classes does not include the preliminary lectures on the physical laws which come into pharmaceutical chemistry. It may also be said that these courses of instruction comprise about thirty lectures. The pharmaceutical student would require two courses (elementary and advanced) to cover the extent of inorganic chemistry contemplated by the curriculum; but there remain the requirements in physical science and organic chemistry, for which three courses at the least would have to be taken out. This method of instruction is exceedingly disjointed, often entailing different teachers for each subject, and being spread over two or more winter sessions. The value of these science classes we do not wish to underrate; they are capable of giving, and have given, sound scientific education, but their courses of instruction are as unalterable as the provisions of the curriculum are to be, so that hope of agreement between them is very slender. Local schools of pharmacy which are conducted under the auspices of pharmaceutical associations will be placed more favourably than the science classes, and will be able to teach all the subjects of the curriculum, spreading the lectures over a whole year, or two winter sessions and one summer session, the latter being devoted to botany. There are only a few of such schools throughout the country, and they are all fairly equipped; but we question if evening classes will meet the requirements of the altered condition of things. The purpose of the curriculum is to take the student entirely away from his shop duties during the period in which he is to undergo collegiate training. This, in practice, is the most satisfactory course for the student; and as those who will have to undergo the curriculum, assuming that it will be legalised, will be persons who have calculated the expense of the training before entering the business, it is obvious that evening classes will only be used for preparatory purposes, and that courses of instruction in thoroughly equipped schools will be taken by students generally.

ISINGLASS AND GELATINE.

THE action brought a few days since against a London firm by a rival house alleging as an offence under the Merchandise Marks Act the sale of an article which seemed to be gelatine under the title of "patent refined isinglass," did not commend itself to the legal judgment of the Lord Mayor of London. We have heard a great deal about the stringency of this new Act, and stringent enough in all conscience it appears to be, when it has to be applied to interference with our export and import trade. Its meshes appear to be constructed with infinite care when the object of straining out the German gnat is in view; but if Mr. Polydore de Keyscr has correctly interpreted its provisions, these cannot prevent Mr. Swinborne or any one clse from selling as "patent refined isinglass" a substance which can be bought in the wholesale market at considerably less than the price of the ordinary quality of what really is isinglass. We do not say that Mr. Swinborne's "patent refined isinglass" is gelatine. Scientific evidence indicates that it is, and Mr. Poland for the defence seemed to admit the suggestion. But the point is that the Lord Mayor distinctly assumed that the substance complained of was gelatine, and yet he asserts that it is no offence against the Merchandise Marks Act; that, in other words, it is not a "false trade description" to label it and put it before the public as a superior kind of isinglass. The Lord Mayor seems to see some peculiar neutralising influence about the word "patent." Apparently another statute is infringed by the use of this word in connection with a substance the patent for which has expired. How it happens that the inaccurate if not illegal use of an adjective can justify inaccuracy in the

substantive is not appreciable to the prefined ey ordinary mortals.

some interesting chemical microscol and polaric evidence was laid before the Lord May on behalf prosecution by Professor Attfield and Dr. lake. The tlemen showed that there were certain hysical difficult between gelatine and isinglass, and the accorresponded exactly with the descrip of the following statement made in a learn to this published on January 14, 1888, over the gives, however, the clearest statement of the distributions, however, the clearest statement of the distributions of the writer (who, we may now state, wa Mr. J. Sutable Dunster House, Mincing Lane) said:—

Isinglass under the microscope show distinct lated or cellular formation, which is y marked ground illumination be employed; it poises well bright, well-defined patches of colour.

Gelatine.—No structure is discerni, the appleing that of a transparent jelly in which a great minute specks are visible (hright by deground ition). With the polariscope these specks ow a disting which I infer that it is starch in versmall glottied tincture of iodine with both, but ithout an Gelatine polarises, showing specks of coler, owing at to the varying thickness.

For examination I soaked each in co water us soft, and then pressed between thin gla

In practical use the difference betweethe two stiss that isinglass will clarify fermented auors and will not have that effect. It is clear to the cell struction of the former forms a sort down floating particles, and that gelated, not have character, cannot perform such work. In the control of the control of the cell struction of the former forms a sort net which character, cannot perform such work. In the control of the cell of the c

PATCHOULI OIL AN: LEAV

In the March issue of the Kew Bulletin few pag voted to information of a botanical and regarding Pogostemon patchouli, the patchouli oil of commerce is obtaine although patchouli was introduced in forty-five years ago, much uncertainty. The information collected by the Kew a horities in doubly welcome, in so far as it serves to at issue concerning the habitat and var ies of the

The supply of the dried herb as well the oil of has lately been very uncertain and sufficient because the steamers plying between cope and ports, from which the article is mostly hipped (and Singapore), refuse to accept consig ents of p account of the danger that the powerfi poour of i be communicated to other goods stored the vicion scarcely possible that such communic n could to any inconvenient extent if the patci li were p sufficient care, and if the goods pla l in the neighbourhood of the shipment were s cted wit crimination. But the fact remains the for a 0 time there has been a great scarcity, a that am be found in Europe for considerable q atities of and pure oil, as patchouli, though perl's its pop perfume is slightly on the wane, is sti 18ed larg junction with other essential oils, note; otto of the dried leaves are well liked a sach Piesse, in fact, states that if the oil c d be obt cheaply, the consumption would

rs in the Sitts Settlements appear to have paid close on lately the propagation of the plant, and the head Straits Settment Forest Department announces that the year 16 there has been a steady inquiry for plants, whi are easy of cultivation, and require but ttention. August 1886 samples of three different es of patched were sent home to the Kew authorities, request for formation concerning their commercial and employent in Europe. The first two samples ed of select leaves and of the entire flowering tops, tem of dry having been the same for both. The presented | ves of the Urena lobata, which are used East to adjerate the true patchouli. The Urena grows wild to large extent in the cocoa-nut gardens e coast, and s leaves are worth, locally, $1\frac{1}{4}d$. to $1\frac{1}{2}d$. whereas for ue selected patchouli leaves as much as rlb. is paidn Penang. The object of the Forest nent in sends home specimens of the adulterant was whether contained any valuable ingredients or ely added the true herb in order to increase the The Kew at orities placed themselves in communia the subjection with a West-end firm of perfumers, a lesale drug ouse, and a Mincing Lane importer of oils, but t answers of these three firms do not every respit. The perfumers value the selected from $8\frac{1}{2}d$. $10\frac{3}{4}d$. per lb., and the flower tops at a e, on account of the worthless stalks, and they state, ard to the alterant, that they know it well, as it ccurs in the leaves bought by them for perfumery The valu of patchouli oil they consider to be 3s. per of The wholesale drug firm value the eaves at 1s. or lb., and the flowering tops at 4d. to b. The ad erant, they say, is not known in the nd is quiteworthless. Lastly, the Mincing Lane estimates the picked leaves at 1s. to 1s. 3d., the tops ls., and the l, if pure, at 3s. to 3s. 9d. per oz. He ves that fro 10 to 20 tons of good leaves would sk sale in Indon, while the wholesale druggists her hand, a ise shippers to be careful in not over-1e market, a shipment of, say, 20 tons would cause prices decline.

ver of these advisers may be nearest the truth, y certain the patchouli is one of the few articles , at this mount, the demand exceeds the supply, pments of g d picked leaves could be quickly made , which is b central market, and whence the dis-Germany d Southern France, as well as the consumers, aw their requirements, the shippers able to poot a very good profit. But it is not e that we sill soon receive supplies of patchouli oil from our than the accustomed quarters. In 5,280 oz. of il and some 18 cwt. of leaves were rom Penangwhereas a few years previously the leaves alon n London reached between 600 and er annum. 1886 a large German firm, with the ancipating r market from its dependency upon orwarded a pply of seed to Paraguay, in South nd, althoug the head of the Straits Settlement partment rerts that "plants raised from seed are re no scent, it they retain it when produced from the German ouse seem confident that their efforts cessful. Pe houli-growing is also being tried in of Dominic and we hear that experiments are e been set (foot in Guadaloupe, Martinique, and ch West Incan possessions. Some years ago suptchouli lear of very good appearance, though deficient i aroma, used to be imported into m Java, bu his source appears to have dried up

A few months ago inquiries were made at Kew by lately. the India Office whether patchouli was known to grow to any extent in Assam and on the Khasia Hills, and whether it could be cultivated in Bengal. To these inquiries reply was given that Professor Oliver, of Kew, thinks it doubtful whether the patchouli plant is indigenous in India at all, a view shared by Mr. Thiselton Dyer, who adds that he thinks it probable that China may prove its true habitat, an opinion contrary to the generally prevailing one, which is that it is the Malay Peninsula. At Kew nothing is known of the existence of any form of Pogostemon patchouli in the Khasia or Assam region, but some varieties of the plant in the wild state are found in British India, from Bombay southwards, and a plant with a patchouli odour, believed to be a variety of Plectranthus, is thought to be indigenous to Assam. The shipments of very stalky and feebly aromatic root which reach us occasionally from Bombay [are perhaps derived from the former species. In connection with this it may be stated that the idea of the patchouli herb being a native of China probably originates from the fact that the block ink imported from that country possesses a distinct odour of patchouli. The introduction of the perfume to the European market is said to be due to the Lyons shawl manufacturers, who, finding that the Indian shawls were always strongly scented with patchouli, imported the oil from the East to scent goods of their own manufacture.

FREE TRADE WITH SIBERIA.

AN OPPORTUNITY FOR BRITISH MANUFACTURERS.

CAPTAIN WIGGINS, commanding the steamship Phanix, from Newcastle-on-Tyne, has recently, after ten previous voyages occupying fully fifteen years, succeeded in finally solving the problem of opening up to European trade by way of the Arctic Ocean, the vast Western half of Asiatic Russia, comprising the regions tapped by the Obi and Yenisei rivers, with their numerous tributaries. On New Year's Day the captain, together with Mr. Sulivan of the "Phænix Merchant-Adventurers"--a name recalling the famous earlier days of John Company, and the exploits of the seafarers that founded our empire across the seas-left Krasnoiarsk, on the Yenisei river, one of the largest towns of Central Siberia, on his way home to Newcastle-on-Tyne. The steamer Phanix was left behind, frozen up in the Yenisei, to return to England as soon as the ice breaks up sufficiently to allow her a passage. Meanwhile arrangements are said to have been made with the Russian Government by which the Newcastle merchants are permitted to import goods of all kinds free of duty into Siberia for a provisional term of three years, in return for which they will undertake to place upon the English market the produce of Asiatic Russia. Exemption from the extremely heavy Customs dues gives the "Phænix Adventurers" virtually a monopoly in supplying the wants of the population of Siberia with Western produce and manufactures, as neither Russian-made articles nor goods imported viâ European Russia are likely to be in a position to compete with merchandise brought direct by way of the Siberian rivers. The new trade route which will now, in all probability, be established is, according to Captain Wiggins, perfectly open for navigation during a certain period of the year, pro vided the steamers employed in the trade are of suitable build, not too heavy, and officered by a captain thoroughly acquainted with all the niceties of navigation in these parts of the Arctic seas. The Phanix reached the Yenisei river, by way of the North Cape, through the Kara Straits, which separate Nova Zembla from the Russian mainland, and thence through the Kara Sea (on the northern coast of which the famous Dutch explorer Barentz wintered from

Essential

1596 to 1597, in his ineffectual attempt to find the northern passage to India) to the Gulf of Yeniseisk. The route follows very nearly the same track taken by Nordenskjold in 1878 when he aecomplished the task of circumnavigating the whole of the northern Siberian coast, but it must be borne in mind that Captain Wiggins had commenced his attempts on this route more than five years before Nordenskjold's final voyage. The Phanix discharged her eargo of European goods near the entrance of the Yenisei river, and from there it was conveyed by the local purchasers (mostly Yeniseisk and Krasnoiarsk merchants), to their respective trading eentres. But an immense barge is now being built at Yeniseisk especially for the purpose of earrying up the river the cargo of the next following vessels, the first of which will start from England in time for the coming summer season. The advantages which this new trade will offer are far greater than would appear on the surface, for, as already observed, the goods imported by the new route will be entirely free from import duty, while the obstacles in the way of transport by any other route are sufficient to exclude all other goods from competition. The only railway which at present exists in the Asiatic dominions of Russia runs through the Kirgiz Steppes, many hundred miles south west of the region opened up by Captain Wiggins. There is, indeed, a gigantic project in existence for building a railway right through Siberia, to be connected at Orenburg with the European system, but the state of the Russian exchequer renders that plan likely to remain a shadowy one for many years to come. Another railway scheme-which is, perhaps, somewhat nearer realisation, though still remote—is that of Mr. Golsehuvastoff, who proposes to connect Western Siberia by means of a railroad with the European coast of the Arctic Oeean, so that the passage of the Kara Straits would be avoided. At present there is a regular service of steamers on the Obi and Irtish rivers in Western Siberia, and if Mr. Wiggins's commercial projects are successful, steam communication is also likely to be started on the Yenisei. As regards the requirements and resources of Siberia, totally erroneous notions seem to prevail in Western Europe. Mr. Sulivan asserts that most European manufactures, even articles of luxury, such as pianos and high-elass furniture, will find a good sale in Siberia; and he carries with him photographs of fashionable Siberian drawing-rooms furnished as luxuriously as any in Europe. In the town of Irkutsk, in the heart of Siberia, an excellent telephone system connects a large number of private houses, and there are many other places-such as Yeniseisk, Krasnoiarsk, and Semipalatinsk-which would offer suitable markets for European goods. This being the case, there is every reason to believe that if some of the enterprising firms whose names are found in the advertising pages of this journal were to seize this opportunity of introducing their goods through Captain Wiggins's steamers, they might find in Asiatie Russia an unexpected and remunerative new market. We have it on the authority of a late officer of the British army that a well-known English proprietary medicine was highly appreciated in the neighbourhood of Khiva, and it is, therefore, quite probable that other English medicines, chemicals, soaps, perfumes, and pharmaceutical preparations would be equally welcome in other parts of Asiatic Russia. Among the many products which we would receive from Siberia, hides and skins, wheat, wool, butter, minerals, and forest produce would be the principal ones. The imports of pharmaceutical interest might include Cabardine musk, eastor, mercury, antimony, and a variety of vegetable drugs; while in the Siberian forests there must still be hidden a large number of products which only require to be known on our markets in order to find a ready use.

We hear from Rangoon tha there is any The Produc-The Production of Cutch. probability of a serious dimin on of the production of Cutch in Upper Burah, as inde there has already been a palpable decline in exports fro Rangoon during the last few years. In 1883, the quanti exported viâ Allonmyo was very nearly 150,0 maunds, t following year it fell to 104,000, and in 35.86 to on 70,000 maunds. The last named year being e first of t occupation of King Theebaw's dominions the Britis trade suffered owing to the unsettled state the country but in 1886-87, although the country was I bably quet than it had been during the deeline of Theeb 's reign, the was a further falling off, and the quantity ex rted was on 64,000 maunds. The decrease in exports via junghoo fro 10,000 to four maunds only need not caus any surprisince the disturbed state of the Nyngian of Yemeth districts, which produce the eutch brought to Toungho sufficiently accounts for the entire collapse of his trade. the Irawaddy district, too, the trade has easyed. The eause of this decline is to be found in the receive and wastern and the control of the ful way in which the supply has been deal vith. In the time of king Theebaw forest conservancy's not know and the lessees of the forests cared nothing or preserving the trees from fire, or of conserving the youn imber.

The climate of many parts (the French

colony of Algeria has been for particular Oil Producsuitable for the production of ssential oll tion in This industry was originated a it thirty-fi Algeria. years ago, when two Frenchmer M. Mercer and Simonnet, commenced the systematic altivation essential oil yielding plants at Cheragas, in province Algiers. The industry has now taken firm bt, not on among the natives, but also among the colests, and di tilleries are in existence at Algiers, Bona hilippevill Mostaganem, Boufarik, and many other plas. The tree most cultivated are those of the citrous spec, which fu nish a large variety of essential oils. Next in rder amon the cultivated plants are geranium, cassie, jas ne, tuberos and peppermint. Of the wild growing ints, thym lavender, rosemary, sage, and marjoram a the mo important. Mr. Antoine Chiris, of Grasse, ov a large di tillery at Boufarik, where orange flowers, per rmint, gennium, and violets are treated. His plantati occupy a area of over 250 acres. The geranium plan ions of the entire colony cover over 1,200 acres, and the essential of the colony cover over 1,200 acres, and the essential over the colony cover over 1,200 acres, and the colony cover over 1,200 acres, a distilled from the leaves of the plant is large employed an adulterant of otto of rose. The production this essential oil (mainly obtained in the province of giers) are ages nearly 220,000 oz. per annum, to obta which over 11,000,000 lbs. of leaves are said to be req ed. At the distillery of La Trappe de Staouëli, where sor of the beat leaves are said to be requested. Algerian geranium oil is made, about 35 acres flowers at grown. They yield three crops per annu producin about 7,000 oz. of essential oil each. The ulk of the Algerian essential oils is shipped to the South (France, and

It appears that seven persons co ining the united wisdom to run a pharmacy e not alland always—infallible. We have efore us Limited Pharmacy. and always—infallible. narrative recounting how a farmer residing English Channel and the River Tweed sent limited establishment the other day for 7 lbs. received a pareel duly labelled as such. the wife. to mix with some sulphur, for horse powders; seeing an opportunity for a little cheap housel ping, used some en a joint of pork that was cooking for det, and to have a stonishment it turned black. The pork as thrown away, and the dinnerless farmer took the parcel ok to the stores for explanation. After several of the lim 1 chemists had examined it, the article was tested by one i e learned than the rest, and pronounced to be tartaric a quickly exchanged for the real "peter," and the given in as compensation for the pork; but c spondent that he will go no more to the stores as he dollike "not that he will go no more to the stores, as he dol like "no certainty " about drugs.

distributed from there to various parts of the vid.

emace ical Society of Great Britain.

EVENING MEETING.

ETING as held on Wednesday evening, Mr. Carteighe, resident a the chair. There was a large attendance, ring thinclement weather. The first paper read

TO Pterocarpus Flavus.

By P. W. Squire.

bark wairst noticed commercially in 1879, when it ered in blic sale in London along with other vege-roducts om Japan. It is a bark in flat pieces, and ellow cor, its botanical source at the time being n. The panese name for it is "ki-wada." It is used n as a d-wood. In some respects it agrees in physiacters th the Chinese bark known as "hwang-peh," Or. Port Smith has referred to Pterocarpus flavus, ch, in turn, resembles the bark of Evodia glauca, hor full lescribed these barks, and gave a résumé of rature the subject, then proceeded to state the or the i estigation which was to clear up the doubt og the u nown Japanese bark ki-wada, the identity rwise o hwang-peh with the bark of Pterocarpus and the ation of both to the bark of Evodia glauca. ner five specimens were examined, three of the bark ar two of the Japanese known to be obtained odia glea. The latter were somewhat thicker barks, other spects they were identical in appearance. opically ey were also found to be the same, the l featur being corky cells presenting the appearance ions, ar containing in each division a crystal of of calcin. The fibrous portion consisted of lamiells. Tr histological characters of the barks were scribed d illustrated by means of photographs of ions. Ivas impossible, remarked the author, from uiry noto conclude that the barks are identical. re also amined chemically. Berberin is the yellow g-matte of Evodia glauca bark, and this was found seent in I five specimens; the reactions with chlorine and ric acid having been given with certainty. clusion rived at, therefore, was that the Chinese ang-pet, like the Japanese bark ki-wada, the pro-

enting on the paper, Mr. Thomas Greenish spoke ist instee in a complimentary manner regarding dires eft. He then proceeded to point out how yit was reading papers which treated of the micro-character of drugs to have before the audience illustrate he peculiar cells and illustrate these by

OLINES d that the paper had two points of practices. Ist, it referred to a bark containing berberin, as used China as a medicine, and also as a dye in d Japa He considered that the work which Mr. as of the most valuable nature, as it was gly diffile to make sections of these partly hard ly soft stances. Moreover, as an eminent botanist nully sai the study of the microscopic characters of tenerally ed to confirmation of the results of systomatical and that was eminently so in this case.

Out that was eminently so in this case.

Out that he photographs which he had shown sufficepresed the sections, the President moved a thanks, ad congratulated Mr. Squire on his first need the Society as an investigator.

TRIATED IPECACUANHA.

By Francis Ransom.

eferred a "false ipecacuanha" which had recently cosed fo ale in the London market. It was a root, oured eernally, not annulated, but marked longity. The owdered root was of a red colour; it connects the hout no glucose. When broken the root

was found to possess a corky portion which was distinctly porous and otherwise unlike true ipecacuanha. There was no difficulty in recognising the root as that of Psychotria emetica. A similar root is sometimes referred to a Richardsonia scabra. Long ago Pelletier reported, as the result of an analysis, that the root contained 9 per cent. of emetine; but he subsequently admitted that his alkaloid was far from being pure, so that this analysis cannot be relied upon. To test the matter further, the author extracted 20 grams of the powdered root with ammoniated chloroform by continuous percolation. Part of the percolate was shaken with water acidulated with sulphuric acid, and this solution, separated and tested with Meyer's and other alkaloidal reagents, gave an exceedingly slight indication of the presence of alkaloid. Another portion of the ammoniated chloroform percolate was shaken with water acidulated with acetic acid, and this aqueous solution on evaporation responded feebly to the test for emetine. This indication was followed up by a quantitative test, which resulted in 0027 per cent. being found as the quantity of alkaloid in the root. It therefore appears that striated ipecacuanha is of little value, so far as chemical tests can show, and these are corroborated by physiological effects. Thus, 60 grains of the powder had no effect upon the author; a dog swallowed $\frac{1}{2}$ oz. of it and showed no signs of discomfort; and Professor Cash, of Aberdeen, has experimented with it and finds it to be inert. A museum specimen of the same drug gave similar results.

The PRESIDENT, in moving a vote of thanks, said that the practical outcome of the paper was extremely valuable. It showed that the root was possessed of no therapeutic activity. He wished to say that all these terms, "false," "striated," and the like, applied to ipecacuanha were extremely unfortunate, and gave rise to misconceptions. All these substitutes were valueless, and the terms should be expunged from text-

books.

The last paper was on

COCAINE AND ITS SALTS. By B. H. Paul, Ph D.

The author stated that the quality of commercial salts of cocaine is far from satisfactory, although better than when the alkaloid was first used. Recent medical literature shows that there is amongst medical men grave suspicion regarding the alkaloid, this suspicion being based upon the varying physiological results which have been obtained. The author thought that this might be traced to difference in the quality of the cocaine used. He then proceeded to give a résumé of Dr. Squibb's experience of commercial cocaine hydrochlorate. Dr. Squibb examined nine brands, and as a result divided them into four groups, viz, two granular and two crystalline, all being really crystalline; but Dr. Paul was of the opinion that this was too liberal a term, only those which are absolutely pure being crystalline. Commercial specimens are frequently amorphous, tests showing them to consist of crystallised cocaine and an amorphous body. The difference in the appearance is not, as Squibb says, "a mere difference in the physical condition." Pure cocaine and its salts readily crystallise. On dissolving a quantity, say 5 or 10 grams, in as much water, and evaporating, the residue crystallises readily, the white crystals radiating from the centre; but an impure salt so treated leaves a relieve and centre; but an impure salt so treated leaves a yellow and gummy residue. This difference is due to the presence of an amorphous body in the impure salt. What this is the author would not say, but he stuck to his opinion that it is not hygrine, which he considered to be a mythical substance. Whatever this substance may be, it is important to be able to detect it readily. Squibb has proposed a chloroform test; 5 c.c. of chloroform, free from alcohol dissolve 0.4 gram of dry cocaine hydrochlorate, and the more water the hydrochlorate contains, the less chloroform is required to dissolve it. For example, 0.4 gram of one specimen required only 0.9 c.c. for its solution. If to the chloroformic solution three times its volume of pure other be added, Squibb states tbat the pure cocaine salt is precipitated, the amorphous substance being retained in solution. Dr. Paul, however, did not consider the test very conclusive, as chloroform also dissolves benzoyl-ecgonine and other undesirable contaminants which are precipitated by the ether. He also dissented from Squibb's conclusion that the granulated crystals are equal in value to the pure crystalline variety, and criticised Dr.

Souibb's remarks at considerable length. After referring to Dr. Stockman's investigations on amorphous cocaine (which go to show that it is a solution of crystallised cocaine in hygrine), and reiterating his opinion that hygrine is a myth, he proceeded to give an account of experiments with the crude cocaine which comes to this country from South America. This he had found to contain earthy substances in considerable quantity (including calcium carbonate), a waxy substance, and a trace of petroleum. Evidently it is obtained by treating the leaves with lime and dissolving out the alkaloid with petroleum, which accounts for the odour of the latter. The amount of alkaloid in this crude cocaine varies from about 80 to 90 per cent. It always contains amorphous alkaloid in variable quantity, one sample containing 85 per cent, of total alkaloid contained at least half of that in the amorphous condition. The alkaloid separates from the hydrochloric acid solution of the crude cocaine on addition of ammonia in the form of oily drops, which require as much as one or two days before crystallisation The solution is always milky, and the alkaloid separates in rather a pasty condition, whereas the pure salt gives a pulverulent precipitate like ammonio-phosphate of magnesia, which rapidly crystallises. It was found to be exceedingly difficult to purify this cocaine; fractional crystallisation was unsatisfactory, but a better result was obtained by dissolving it in strong alcohol and adding water to the solution, whereby the cocaine is obtained in finely divided crystals with little loss. Heat must not be applied in affecting the solution in alcohol, otherwise the cocaine is rapidly

The characters which pure cocaine hydrochlorate should possess are as follows:—It should be free from colour, and should dissolve in water to form a perfectly transparent and colourless solution. It should be free from odour, especially a mousy odour, and the odour of benzoic acid. Also, it should be neutral. Some commercial specimens of the salt are acid to test-paper, due, according to Dr. Squibb, to slow decomposition of the salt by the action of the water contained in it, acid being set free; but the author stated that this is not so, and he has heated cocaine hydrochlorate for a time in a sealed tube without decomposition. The most satisfactory test, according to the author, is the ammonia one. cocaine hydrochlorate dissolved in water when treated with solution of ammonia yields a precipitate which rapidly becomes crystalline, and amounts to 89 per cent. by weight of the salt. It has been stated in books that this precipitate is soluble in excess of ammonia, but this is not so. The precipitate disappears on standing, owing to decomposition, the loss of a precipitate in eighteen hours only amounting in one case to 3 per cent. The following are the results of the examination of a dozen commercial specimens by means of the ammonia test:

Water	Cocaine	Water	Cocaine	
Per cent.	Per cent.	Per cent.	Per cent.	
1. 0.9	85.6	7. 0.43	81.04	
2. 0.5	., 84.3	8. 9.47	74.9	
3. —	84.0	9. 2.0	78.6	
4. 1.0	83.6	10. 0.57	78.21	
5. 0.43	82.6	11. 2 ·39	73.4	
6. 1.19	81.35	12. —	65.3	

The first eight of these gave precipitates which rapidly crystallised. The difference in the amounts obtained is practically the difference in the water content. The last four specimens are very bad. No. 9 contained only 66.4 per cent. of crystalline, and 12.2 per cent. of amorphous alkaloid; No. 10 contained 43.28 and 34.93, and No. 11 41.7 and 31.7 per cent. respectively of crystalline and amorphous alkaloid. The author emphasised the importance of noting the character of the precipitate. In the case of the bad specimens this is always gummy or oily, and as cheap cocaine salts are invariably of this character, it is obvious that they should be carefully examined. The author stated that he had received from Dr. Fuller, of the New York Quinine and Chemical Company, a quantity of the amorphous substance in question. It is in the form of a viscid liquid, like Canada balsam, yellow in colour, bitter to taste, possessing a characteristic odour and alkaline in reaction. It differs chemically from quinine, is freely soluble in alcohol and ether, and dissolves in dilute hydrochloric acid forming a milky solution. A neutral solution of the hydrochlorate becomes acid when

heated in a sealed tube; hence to the prese e of this b is due the acidity of cocaine salts. The author is continuities investigation. In conclusion the author eferred to utility of Maclagan's ammonia test, but remended to utility of Maclagan's ammonia test, but remended by Mr. Williams, viz heater to be used. He had had some expenses with method recommended by Mr. Williams, viz hydrochlorate in absolute alcohol and pipitation of hydrochlorate in absolute alcohol and pipitation of hydrochlorate in absolute alcohol and pipitation of amorphous alkaloid is precipitated along the theorem of purifical was only suitable for purificing pure salts.

was only suitable for purifying pure salts. Aughter.)
Mr. Stocken, L.D.S., on the invitation the Presid started the discussion. He said that dentis had found action of cocaine as a local anæsthetic to lso erratic they were losing confidence in it, and were, deed, afrai He had employed it in three case. In the or was quite satisfactory, but in the other o very ser symptoms were produced. A medical gent nan was on the patients in whom toxic effects were in ced. He previously injected cocaine into this gentlean's gums there was no bad effect; but a second time, i nediately the tooth was removed, the patient experied pressu the heart, numbness of the extremities, an lausea, but intellect was quite clear, although there was ntense anx These alarming symptoms were relieved b itrite of a Another similar case was related, in who difficult swallowing was experienced, and this pat'e was so ten influenced by the drug that he gave Mr S ken direct as to what should be done when he died. I Odontolo Society have recently investigated the n ter with curious results, some dentists having only he hest rience, others the most disagreeable. On he whole speaker felt, after hearing the paper, that s toxic s toms must be due to the use of impure coca, and he o say that in the case of his medical patient e cocaine the second time was different from that ed on the occasion. It was not a question of idiosyncsy. The tions were fresh.

Mr. Postans suggested that cocaine shid be presin the form of gelatine lamels.

Mr. Martindale fully corroborated the rak regal the ammonia test. If the cocaine salt was rystallized answered this test it could be used wit safety. I specimens of cocaine hydrochlorate who micaceous crystals were not pure; the definition of the crystals better, and should be perfectly free from our and with the exhibited specimens of these different arieties, a sample of cocaine saccharate, made by dige by cocaine saccharin together. This combination from the throat, a significant regal to the combination of the combin

Mr. Sydney Plowman, F.R.C.S., saic hat we apparently on the threshold of the subject as little be said until the physiological action of le amorp substance was known. It was interesting) hear the had no anæsthetic action when placed on t tongue, might have when applied to the eye c injected cutaneously. He quite agreed with Mr. Stock that difference observers had come to different conchins regar cocaine. He had used cocaine extensively subcutan injections, and as the result of observation at least cases had come to the conclusion that tox results w matter of idiosyncrasy. For instance, he h injected a grain into an emaciated child, well-nigh deaths and it produced no bad effect, but the sa quantity duced alarming symptoms in an adult. It v quite po that the toxic effects in some cases were di to impur but that they could not tell until they isolat the impu and determined their physiological action He remined the meeting that, as the result of experimed in which had something to do, Dr. Edmunds had own that stronger solution than 5 per cent. should more dilute the solution than 5 per cent. more dilute the solution the more readily ar he anast effects produced. He thought the saccha e was an necessary refinement. It was not the tas they object to in threat to in throat cases, but the feeling of restrion which saccharin would not remove. He agreed that the granular cocaine was the better. I hinty case had used it without the remove that the granular cocaine was the better. had used it without toxic effects. That v in the t days of cocaine, when it was said to be less e than no Mr. Holmes asked Mr. Stocken if he use he cocaln mpty stoma. Yew berries were poisonous to sheep eaten on a mpty stomach, but not so when digested with food. Yew was a cardiac poison, and it was posthat the effet of cocaine on the heart might be due to ing used we the patient was fasting. There were varieties of ca leaves in the market, and it was the green variet which was said to yield hygrine.

STOCKEN plied that dentists always gave anæsson anem stomach, as they acted better. He also that half grain of cocaine had not produced bads; it was the arger dose (one grain) which did that.

BROWNEN nsidered gelatine to be an excellent preive of coce, and that magnesia and aluminum te were less t than other alkalies to change it to the

COATS remixed that he had found solution of saliof cocaine keep better, and to satisfy medical men

than solution the hydrochlorate.

PAUL, in reving, said that if the hydrochlorate was and the stion carefully kept free from organic r, it kept for long time. But there was no necessity for keeping solution in stock, as it could be readily when wanted the did not think that a solution of realkaloid either would be satisfactory, as the alkabould be preceduled by the water of the tissues when plution was jected. He again emphasised some of onts regard y purity mentioned in the paper, and that the object of his communication was not to discuss yielogical exts of the amorphous substance—that and doctors. He could assure Mr. and that it we not a matter of faith, but of fact, that excial specims of cocaine contained amorphous substance in the lation of the caid, change cocaine altogether, so that a solution sine salicylat would not contain cocaine at all.

PRESIDENT en wound up the discussion with a few mentary rerks, after which Mr. HOLMES briefly bed the speci as upon the table, amongst which were is of loganir the glucoside of nux vomica), shown he polariscop Eucalyptus honey, botanical specimens asafætida Int (*Ferula sp.*), a new variety of stronus seeds, an everal specimens of Ceylon drugs.

DINBURGE CHEMISTS', ASSISTANTS' AND APPINTICES' ASSOCIATION.

EHTING wa held in the Pharmaceutical Society's ouse, Edinbu h, on March 7, at 9.15 P.M., Mr. George, President, if he chair. first paper ref was on

TINCTUI FERRI MURIATIS, PH. ED.

By A. W. King.

r some prelin ary remarks regarding the therapeutic of iron, the above traced the changes in the preparate Edinburgan martis end was made from iron and muriatis, and it was made from a black oxide iron and muriatic acid; finally, red or oxide of iron as substituted for the black oxide, the

Red or sesquate of iron 6 oz.

Muriatic acf
Rectified sp. of wine . . . 1 pint
the oxide in the cide for three days in a glass vessel with a gita-

late Sir R. Ch nion being th the cf iron, to actinic effects ne sesquioxide with the greater part, he attributed This view was based on the supposition esquioxide with and by precipitating a solution of sodium carbonate, collecting and ining the precipate. The author examined two speciof it, and four in one 15-98 per cent. of ferrous oxide,

and in the other 18.79 per cent. It is obvious, therefore, that the tincture must contain protochloride. Three commercial specimens of the tincture were reported upon. These had the following specific gravities: I. 0.961; II. 1.026; III. 0982; and contained respectively 23, 29, and 25 grains of ferric oxide (Fe₂O₃) in each oz. Mr. Phillips, the editor of the London Pharmacopæia, stated that the London preparation made in a similar way contained 30 grains of the exide in each oz., so that tincture II. is the only one which at all approaches to this. The author had difficulty in estimating the amount of ferrous salt in the tincture, owing to the presence of other oxidisable ingredients, but by a colorimetric method, viz. the comparison of the colours developed with solution of ferrous sulphate of known strength and a solution of the tincture on addition of potassium ferricyanide. This test indicated roughly that fincture I. contained 2 grs. of ferrous salt in each oz.; II., 5 grains; and III., 1 grain. Obviously the tincture is far from being uniform, owing to variation, in the first instance, of the oxide used, and to the reducing action of the alcohol in presence of free acid. In concluding, the author referred to the necessity of prescribers indicating plainly that they wish this tincture when "tr. ferri mur." is ordered.

The discussion which followed was taken part in by Messrs. Boa, Duncan, Henry, Hill, Lunan, Macpherson, and Sharp. The latter stated that the Edinburgh tincture was specially recommended by Sir William Turner as an antiseptic for the preservation of anatomical preparations, its superiority over the official tincture being attributed to the presence of a small quantity of free chlorine, said to be

present in the former.

Following this several valuable notes were read, entitled —

LEAVES FROM A PHARMACIST'S NOTE-BOOK.

By J. Rutherford Hill.

Before proceeding to read his notes Mr. Hill read a very interesting note which he had received from an esteemed honorary member, Mr. Peter MacEwan. This was a description, accompanied by a sample, of Chance's process for the

recovery of sulphur from alkali waste.

Botanical Notes.—Last autumn the author found specimens of canary grass (*Phalaris canariensis*) on a rubbish-heap, north side of Queensferry Road, a little beyond Daniel Stewart's Institution, Edinburgh. The plant, which is the source of canary seed, is a native of the North of Africa and Southern Europe, and is cultivated in Central Europe. It has been found in the South of England, but nowhere else in Britain, as far as the author was aware, and he attributed the origin of this specimen to some stray seeds from some bird's cage. Another stranger which he had found on his walks was the flowering rush (Butomus umbellatus) which he found growing on the face of a chiff on Arthur's Seat, 750 feet above the sea-level. The plant grows abundantly near Duddingstone Loch, 600 feet below the spot. The natural habitat of the plant is watery ditches, still waters, or sluggish rivers. On the unusual site on which the plant was growing was a small basinlike cavity in the rock, full of very moist earth, the moisture being supplied by a small spring in the face of the rock behind, thus producing all the conditions suitable to the special requirements of such a plant.

Aldehyde in a Sample of Rectified Spirit.— Tinctura quininæ ammoniata becomes brown immediately on the addition of the ammonia to the alcoholic solution of the alkaloid. It is well known that the tincture in question does become brown on standing, this change being due to some not very well understood change in the alkaloid, but which is common to most neutral or alkaline solutions of all alkaloids. In this case, however, the change took place at once, and, suspecting that the spirit used was impure, a sample of it was obtained, and it gave reactions for a larger amount of aldehyde with the official silver test than the B.P. permits. It was also found that this spirit decolorised permanganate of potassium more rapidly than pure spirit, and the aldehyde resin test was given with distinctness. These tests show that the immediate coloration of the ammoniated tincture of quinine is due to an objectionable excess of aldehyde in the rectified spirit used. It would be a useful addition to the official tests to say [as the German Pharmacopogia does] that rectified spirit should not give a yellowish-brown

colour on adding ammonia,

Nitrate and Carbonate as Impurities in Sodium Acetate.—Five commercial samples of sodium acetate, all described as chemically pure, were examined with the following result:—Three gave distinct evidence of nitrate; one contained no nitrate, but was distinctly alkaline to test paper, and on examination was found to contain 0 67 per cent. of sodium carbonate; and the fifth alone could fairly be described as chemically pure. Dunstan has pointed out that nitrite is a common impurity in potassium hydrate, this being derived from nitrate added to effect oxidation of iron during the manufacture of caustic alkali. Dr. Atkinson has also stated that he found nitrite in potassium and sodium carbonates, but never in any of the salts prepared, directly or indirectly, from these compounds; and he accounts for this by saying that "even were any present in the carbonate used, it would obviously either be destroyed in the process or left in the mother-liquor." The author did not find nitrite in these samples, and thinks that Dunstan has probably correctly indicated its source. The sample of acetate which contained carbonate was in larger crystals than the other samples.

Infusion and Tincture of Senega .- In this note the author recorded the results of observations on the precipitates which are found in these preparations. It was shown that equal parts of rectified spirit and water are not as good a menstrum as proof spirit for senega, as the tincture prepared with the former deposits much more quickly and abundantly. Experiments had satisfied him that the deposit in question is saponigen, due to the decomposition of saponin. This decomposition goes on in all tinctures; but as those containing as much or more alcohol than proof spirit retain the saponigen in solution, the decomposition is not apparent. being formed simultaneously, it is evident that this will give an indication with Fehling's solution of the extent to which decomposition has taken place. And so it proved to be on trial. A fresh tincture gives comparatively little reduction, but a year-old tincture gave much greater reduction. The author believed that the precipitate which forms in concentrated infusion of senega is the same substance. The infusion, filtered clear, continues to deposit saponigen, owing to decomposition and the small proportion (25 per cent.) of alcohol which it contains. [The deposit in this case may be prevented or redissolved by the addition of a few drops of solution of ammonia to each oz.—Ed. C. & D.]

Fresh and Concentrated Infusions.—A comparison of a fresh infusion of cinchona and two samples of commercial concentrated infusion showed that the alkaloid in each case was:—Fresh, 0.26; concentrated, 0.125; and 0.063 per cent. (calculated on the diluted preparation). The alkaloidal value of the bark used in all cases was not known, but the author added that the figures show that the best concentrated preparation is only one-half the strength of the fresh infusion. In appearance, colour, and aroma there was also a very decided difference between the fresh and concentrated samples.

The other notes dealt with ferrum redactum and cocoa. In the former the author stated that six commercial samples, when treated with iodine, indicated 90, 85, 60, 56, 40 and 40 per cent, of metallic iron respectively. All the samples gave off sulphuretted hydrogen when dissolved in hydrochloric acid. The official test in this respect was, he thought, too exacting. It would be sufficient to require that not more than a trace of sulphate should be present.

A discussion followed, which was taken part in by Messrs. Duncan, Henry, Lunan, and Macpherson, Mr. Lunan suggesting that ferrum redactum might be obtained free from sulphur if prepared from liquor ferri perchloridi instead of liquor ferri persulphatis.

Messrs. J. Wilson, D. McEwan, and A. R. Bennet were appointed secretary, treasurer, and assistant secretary respectively, these offices having become vacant through members leaving town.

THE PRESCRIPTION MARKET.—An American newspaper correspondent at San Remo offered the English chemist there 60l. for copies of Sir M. Mackenzie's prescriptions dispensed by him for the Crown Prince, but (says the Times correspondent) this impudent offer was of course declined.

THE RECORD BEATEN.—The Orient Liner Orizaba arrived at Plymouth from Australia on Tuesday, having made the fastest passage yet recorded. She left Adelaide on February 6, the length of the passage being 32 days 3 hours.

THE INDIAN OPIUM TRADE

EXT to land, opium is the most productive of le princip sources of revenue in India; but, except the ins nificant portion raised in the form of excise unlocal or sumption, the whole of the opium revenue is possible by the foreign consumer. In the first instant however, is obtained either by monthly sales in Calcutta grown in Bengal under a strict Government the opium grown in Bengal under a strict Government of the opium grown of the natural states of Malwa as it passes the landward from the princip states of Malwa as it passes the landward from the natural states

The number of chests sold by auction in Cauta in financial year 1885-86 was 50,994, and the av ge price which they were sold 1,234 rupees per chest in Bom 37,677 chests paid duty at the rate of 650 rupe in Bengal in 1886 was a heavy one, and the st co opi was increased during the year from 58,389 (sts at beginning to 73,016 at the end.

n Bengal in 1886 was a heavy one, and the st of opi was increased during the year from 58,389 c sts at beginning to 73,016 at the end.

The following figures give the produce an irea un culture:—Land sown for cultivation in Be r, 445, bighas; produce at 70° consistence, 55,802 m ids. Le under culture in Benares, 475,195 bighas; price at consistence, 78,001 maunds. A bigha is nearly nethican acre, and a maund approximately 80 lbs. The Be opium appears to have been considerably fin than the produced at Benares.

The number of chests imported into Bomba n 1895 was only 40,036½, of which 37,173 chests were china. The price of a chest of opium in Bon y is de mined mainly by the demand in China, and in 1 truled low, being 1,165 rupees per chest for n compared with 1,169 rupees the previous year. of the year the principal opium merchants addressed a memorial to the Government of I a pray for a reduction in the duty on opium export for Chesto from 650 rupees to 500 rupees. They based the the grounds of the enhancement of the tax on i by the Chinese Government, and of overputation. No change, however, in the rates been made.

The consumption of opium in Bombay goes of creasi 145,395 lbs. were disposed of in British dist is of Presidency, and 141,396 lbs. were sold in the ive Standard to Bombay. Smuggling is still larg practic in the northern portions of the Presidency, fo intrabopium to the amount of 2,097 lbs. was capture using year.

year.

Assam and British Burma are the two provin in who opium is most largely consumed. In the for ritributes as much as 83 per cent, of the total expression over 8d. per head of the population; in the cent, or 9½d. per head. The number of opius shop British Burma has been reduced from 68 to selling price raised to 3l. 2s. per seer of 2 lbs.

Ganja, an intoxicating preparation of hemp imital bhang and haschisch, is most largely consume a Ben especially by the Muhammadan population. As the use is steadily checked by means of progress tation of the rate of duty. In Bengal ganja n larger duty than opium. In 1883 the amount with being 19 per cent. of the total excise revenue. I of that year the total number of shops was 3, reduction of 200, and the duty was raised 2s. p these means the consumption was reduced to 5, a decrease of 1,000 maunds. The revenue derived from ganja was 32l. 18s., as compare average of 2l. 3s. 6d. for the five previous years evied and the drugs upon which an excise duty imadak and chandu, two preparations of opium, which is said to be specially deleterious. The cipal other drugs upon which an excise duty which is said to be specially deleterious. The cipal other drugs upon which an excise duty which is said to be specially deleterious. The cipal other drugs upon which an excise duty which is said to be specially deleterious. The cipal other drugs upon which an excise duty with the poppy is prohibited throughout the Bombar both in British districts and in native States, ception of Baroda. The opium is made into ha

each, and packed in chests cach containing he chest uniformly weighs a fraction over best, by equivalent to the Chinese picul (133\frac{1}{3}\) lbs.), be pent, thrown in for trade perquisites. Owing, ver, t difference in manufacture, a chest of Behar is made of the consistence of 75°, contains on 10°, s. of "fine" opium; while a chest of Benares on, whi is made of the consistence of 70°, contains of "fine" opium. The "consistence" is the perge of ne opium excluding all water. In Bombay, ode of levying the duty favours a high consistence, a est of the same weight is estimated to contain the a ended table column 1 shows the number of

the a ended table column 1 shows the number of s of B gal opium sold for export; column 2 the number of chest issued to the excise and medical department in Presid cy; and column 3 the number of chests which

duty a Bombay.

	1	2	3
7	47,240 49,500 55,500 59,100 56,400 56,400 56,400 54,400 46,698 50,994	3,772 4,092 4,383 4,408 4,148 4,384 4,910 4,370 5,522 4,441	40,136 46,803 36,807 46,211 36,070 31,196 36,327 38,586 39,039 37,677
al ige	53,262	4,443	39,685

	Opium Export	ts from In	dia.	
	Chests			Chests
	130,775	1882		 89,338
	92,822	1883		 91,798
••	91,200	1884		 91,963
	•• 105,507	1885		 86,578
	92,190	1886		 87,956

value f the opium exported by sea from India on e acco t is thus given for the official years ending—

	£		£
	. 12,404,748	1883	 11,481,379
	. 12,374,505	1884	 11,294,480
•	. 12,993,985	1885	 10,882,603
٠	• 14,323,314	1886	 10,735,518
•	. 13,600,148	1887	 11,076,689
	. 12,432,142		

experiture incurred on opium seems to be about 0000. r annum, and the net receipts during the last ears a geed 5,867,3351.

elast yr's shipments (1887) were as follows to—

Chunts.				Chests		Cwts.	
Jon of	Slements	••	••	11,396	 	16,715	
Hong	M(3	••	• •	65,217	 	89,877	
Cookin	Its	••		17,907	 	23.110	
)+box	co tries	••		1,150	 ٠.	1,683	
riner	cctries	••	••	169	 	242	
	Jal						
	Ja1	••	• •	95,839	 	131,630	
	-					P. L.	S.

RMAN SECT FLOWERS.—A Berlin pharmacist, Dr. r., has an experimenting with powder from the insect restrains at the Horticultural Society's grounds near the holds that the powdered flowers from Pyrethrum, Berneuse, act very satisfactorily, killing the insects imente upon after forty-five minutes. The powder of ucasion, Berolineuse, was less active; the insects were ne dete stupefied, but even after having been kept weral are in the read-

veral lars in the powder under a glass they remained The carneum powder had no action whatever. Dr. r consers the results obtained sufficiently encourted wa not the extension of the cultivation of pyrethum, ially one roseum variety. He recommends, however, ddition filme to the soil set apart for cultivation.

Dental Notes.

MOUTH-WASH.

A TEASPOONFUL of a lotion prepared according to the following formula, in a wineglassful of warm water, used every morning as a mouth-wash, is good for restoring firmness to the gums when the teeth are loose:—

Tannin]	la drachms
Iodide of potassium	 	12	2 grains
Tincture of iodine	 	1	drachm
" myrrh	 	:	l "
Rose-water, to			3.07.

Dissolve the tannin and potassium iodide in the rose-water. To this add the tinetures, and strain.

A NEW OBTUNDER.

NITRATE OF SILVER in strong solution is recommended by Mr. W. George Daish for treating sensitive dentine preparatory to stopping teeth. The solution causes increased pain at first, but this generally subsides and does not return. Mr. Daish believes the nitrate acts in virtue of its proneness to decompose in contact with organic matter. It acts promptly, so to speak, upon the gelatinous portion of the tooth, destroying its vitality to the extent of the combination which takes place; and by a decomposition of a part of the salt, and the consequent liberation of a part of its acid, it acts also with energy upon the calcareous portion, but the compound formed by the nitrate with the organic constituents of the tooth is insoluble except in a few substances, and therefore protects the subjacent parts. The precipitation of the reduced oxide on the surface also affords, he believes, some additional protection, and the insolubility of the compound prevents the absorption of the nitrate by the dentine, rendering its action necessarily superficial.

PARSON'S LOCAL ANÆSTHETIC.—Dr. Parsons has published the following as the formula of his anæsthetic:—

		I	Parts
Chloroform	 	 	12
Tincture of aconite	 	 • •	12
" capsicum	 	 	4
" pyrethrum	 	 	2
Oil of cloves	 • •	 	2
Camphor	 	 	2

Dissolve the camphor in the chloroform, add the oil of cloves, and then the tinetures.

ALUMINUM DENTAL PLATES.—Mr. George H. Swift states that the early use of aluminum was not satisfactory, as the metal was impure, owing to the presence of iron, and it soon succumbed to the fluids of the mouth. This was more generally true of cast plates, which were not only more difficult to make, but were not as good. The metal is not very casy to cast, as it does not flow freely like other metals, and the contraction is considerable, causing cracked blocks. When made from rolled plate, and pure metal, aluminum for upper cases has proved very satisfactory in his hands, and not being very expensive is a recommendation, as it is a metal, and is thus better than rubber and less in cost than gold. It is very light and strong, perfectly tasteless and odourless, and as healthy to the gums as gold or platina. The teeth are best attached with rubber.

TOOTHACHE PELLETS:-

		(rain	S.
Cocaine hydrochlorate	 	 	16	
Powdered opium	 	 	64	
Menthol	 	 	16	
Powdcred althæa	 	 	48	
Mucilage of acacia	 	 	9	

Make into 1-grain pills and keep in well-stoppered vials. For use, one of these is to be inserted into the hollow tooth.

THE NEW AUSTRIAN PHARMACOPŒIA will appear in December next. The pharmacognosy section is said to be compiled by Professor Vogl; the chemical section, from A to K, by Professor Ludwig, and from K to Z by Professor Barth; while Mr. M. R. Schneider will edit the whole. The authors are very reluctant to give any details about the progress of the work.

MR. BLANK'S ADVERTISEMENT.

There is an old-fashioned ring about the next communication, which is sent by W.:-

MR. BLANK, chomist, Dull Town, dispenses prescriptions with the greatest care and accuracy, using the purest and best medicines obtainable. All drugs are carefully examined before being received into stock, and preparations of them made in his own laboratory. New medicines supplied without unnecessary delay.

Mr. Blank has in stock a large assortment of requisites for the Nursery, and Sick-room, Feeding Cups, Medicine Measures, Thermometers, Inhalers, Spray Producers, Enemas, Syringes, &c.

Especial care is taken in the fitting of Trusses, Belts, Elastic Stockings &c., satisfaction being assured.

Our next correspondent ought to satisfy that wonderful pharmacist who has lately been raving about "the interaction of the egoistic and altruistic principles." Though poor Blank should entirely surrender himself to his customers' interests, as he declares in this case he will do, we doubt whether he will any the better arrest the flow of trade to the cutting shop opposite, unless he should as well offer a better shilling'sworth for a shilling than his neighbour.

Dull Town.

MR. BLANK,

CHEMIST AND DRUGGIST,

while taking the present opportunity of thanking his numerous customers and friends for their past and present favours, hopes by entirely giving himself up to studying their interests to merit a continuance of their support; also to gain their confidence by executing all orders intrusted to him with accuracy and pure chemicals. Specialities in all branches of the trade. A large number of patent medicines always in stock. Articles not in stock procured without delay.

Mr. W. G. Blackham goes back to Horace for a startingpoint, and draws up the following:-

"Why do we, whose period of life is so transieut, aim at so many things?" asks Horace—and echo answers, Why?

Why do we not at once enter on the practice of virtue, and instead of arst trying this COUGH MIXTURE and that FAMILY RECIPE, be

Cured at Once by One Bottle

of

BLANK'S WILD CHERRY COUGH ELIXIR.

Prepared by an improved process from the Pruni Virginiana cortex, and elegantly acidulated and combined with other infallible remedies.

THE WILD CHERRY COUGH ELIXIR

does not derange the stomach, but, on the contrary, acts as a tonic, is at once soothing to the throat, chest, and lungs, and agreeable to the

The most violent fits of coughing are reduced at once in severity: DIFFICULTY OF BREATHING is relieved; that dull, depressing pain in the chest is removed by one or two doses; and in all cases of ORDINARY COUGHS, if taken in time, A FEW DOSES WILL EFFECT A CURE.

Sold in bottles, 1s., 1s. 9d., 3s., and 5s. 6d.

Sole proprietor-

J. BLANK,

Dispensing and Family Chemist, Dull Town

If Horace and the Pruni Virginiana cortex do not fetch the shillings, the therapeutic knowledge afterwards displayed ought to have that effect.

Mr. F. Gall, of Landport, tries to arrest the public's mad rush to the cutters by the following argument:

> MR. JOSEPHUS BLANK, Chemist and Druggist,

88 High Street, Dull Town,

Requests the attention of the public, in these days of low prices, to the fact that quality is the only true test of cheapness. If this be true of the ordinary articles of our food, drink, and raiment, it is still more important as regards our medicines, which, unless carefully prepared from genuiue drugs and chemicals, and dispensed correctly, will baffle and disappoint the physician, be he never so skilful. The public can rest assured (being

unable, as a rule, to judge the qualities of drugs for then ver) that the will he well served with gennine articles at strictly mo ate prices applying to Mr. J. Blank at the above address. To use who has already given him their confidence he returns his grateful anks.

We come now to a competitor who does not in his pos card, but who indicates to us his identity, and io, we tall it, writes "sarcastikal." He proposes the follo pg:

BENJAMIN BLANK, ESQUIRE,

So-ealled Chemist and Druggist,

Dull Town,

Condescends to inform the royalty, aristocracy, and gent, that he is a a chemist and druggist at all; that he has a contempt f trade, and really a highly scientific professional gentleman.

That he makes no charge for any articles supplied by his but only f his scientific skill in handing over the same.

That he will have only official articles in his "office," and the doctor or any one else are such absurd radicals as to want a new langle inventious, they may go to the unprofessional elemist rou the corner, to the stores, or the --- for them.

That he is much surprised that the royalty, aristoch, and gont should get their prescriptions dispensed at the stores a tenth of prices, when the professional services of "one of themse ," as it we are available.

In consequence of which desertion he regrets to info said royall aristocracy, and gentry that the opposition are getting all learner trace with their unethical enterprising ways, actually introducing wthings the have never been even asked for, but only advertised in that ade journa (which he don't take, by the way).

And, lastly, that he begs the royalty, aristocracy, and ntry will take tickets in a raffle for bis daughter's piano, which muse disposed at once, as the rent is overdue, the till empty, and the last dethreat

N.B.-Unprofessional chemists may also take tickets in t affe.

Mr. Amos, Maidstone, who sends the next pourd, seen to demand a little too much faith in Mr. Blank ; the wint conqueror. He does not tell us what sort of iff he w

IMPORTANT FO3 YOU.

YES, you who are holding this paper, with your handsper neechapp and cracked or fingers swollen double with chilb'ains, and 19 have, e you have read thus far, coughed nearly to choking from this that t settled upon you. These are the effects of winter. But Mr. 1 vs., chemi copes with its severity, and offers to all a magic triad their cu For 1s. any one, or 2s. 9d. all three maladies can be cured with a wee Send at once to

MR. BLANK, The Medical Hall, Dull Town.

The suggestion offered below by Mr. Edmoron, Rati mines, is for a style of advertisement which wou certain attract attention in a paper crowded with advert nents.

We have to thank Mrs. Arthur Woodcock, 2 agdale Street, Norwich, for the next proposal, which appea o man

A GENUINE BARGAIN.

To be sold, publicly or privately, at the shop of Mr. Blank, 235 Du Town, for the small sum of 13td, each lot, a large quantity als Mag Liver Pills.

maker o

dispute of arise between the buyers, as Mr. B. has made full arments supply all. Each lot will be in good condition, and nteed to re all those suffering from biliousness, nervousness, indin, head e, and liver complaints.

comme s on the morning of March 1, at 9 o'clock sharp.

.-Bills pecting sale can be had of the proprietor on application.

£1 REWARD.

above vard will be given to any person sending Miss Egmont , Teg., I thourne, the correct address of

MR. BLANK, CHEMIST AND DRUGGIST (Somewhere in Dull Town),

BRONCHITINE,

A certain specific for Coughs and Colds.

R.

FOUND DEAD.

HOCKING ISCOVERY was made yesterday in a house in town, where mbers on entire family were found with life entirely extinct, in uence of too free use of W. BLANK'S CARBOLIC POWDER on the floors. ald be acd that the corpses found were those of FLEAS, and the r is supp d by

W. BLANK.

CHEMIST AND DRUGGIST,

York.

T. S. PEARSON, Maidstone.

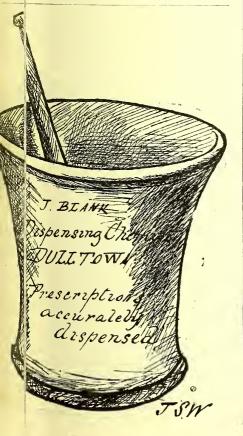
"There is a remedy for every ill."

TINE is remedy for corns; it has always proved a certain cure d or sof orns; it cures in every case, and will do so in yours.

The rose has a smell, and so have onions ; Corns are sore, and so are bunions."

OW TO REDUCE CORNS. WHY CUT 'EM?

say, wh nonsense. Well, it is nonsense for people to go on sufferen you get a 1s. bottle of BLANK'S PALMINE. One application the pai a few applications effect a certain cure. The hundreds ring te monials received from all parts are a guarantee of its nd gen eness. Contains no acid, does not burn, causes no pain, armless, t effectual.



Sensational advertisements are sent up in abundance. Some of the most interesting are given below.

IF IT SHOULD BE REPORTED THROUGH THE TOWN

THE QUEEN IS DANGEROUSLY ILL or that

GLADSTONE IS DEAD

we should all feel very surprised and anxious to know if these rumours were true;

but BLANK, of 31 Fore STREET, DULL TOWN,

would feel still more astonished and doubtful of the truth of the statement if he heard that his

VEGETABLE PILLS

had ever failed to relieve anyone who took them regularly and according to the directions.



E. G. BURROW, Wellington.

LIVER

REMEDIES
RORCHMAN
RORCHMAN
RORCHMAN
ROMENTA
LIVE R
COMPLAND
SOLD ONLY
IN ONLE
CHILLING
CHILLING
CHILLING
COTTLES 0, SPENSING PERFUMER DENTIS T

TOILET REQUISITES ETC PROPRIETARY ARTICLES PURE DRUGS ETC. HOPE STREET

DULLTOWN.

BLANKS BERMINE BEIN.

TRY HOREUM THE BEST REMEDY FOR COUCHS COLOSETC BRONCHITO ASTHMA, SHILLING BOTTLES.

OLD POSTAGE STAMPS are comparatively valueles;;

OLD CLOTHES

are not admired; BUT BLANK'S

OLD ENGLISH LAVENDER WATER

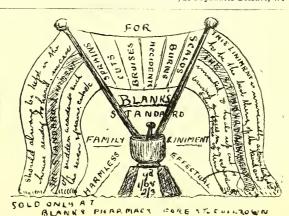
IS LIKE AN OLD FRIEND,

ROTH

VALUABLE AND ADMIRABLE.

Sold by BLANK, Chemist, Dull Town.

G. W. HODDER, 23 Bayswater Terrace, W.



Veterinary Treatment.

MUD FEVER.

"HE disease known among horse owners as mud fever is more or less of a regular visitor in winter time both in town and country districts, and the conditions which bring it about are not very clear. It is more frequently the scourge of the gentleman's than of the poor man's stable; while most diseases find a home among the ill cared for and ungroomed, this is an exception, and it was as if by accident the remedy,

or rather prevention, was discovered.

In 1871 many London horses died, and so aggravated a form did the disease take that many firms were unable to horse their vehicles, and great inconvenience and loss re-Some one then observed how night-cabbers and other horses that are put away dirty escaped, while the carefully washed and bandaged hunter was laid up. It was found that by leaving the hair on the lower parts of the limbs, and leaving the dirt on the hair till dry, very few cases of mud fever appeared; since that time the custom of clipping down to the elbows and nearly to the hocks has become much more fashionable, and is adopted by many without knowing the reason. Still, with all precautions, mud fever has been rife this winter, and metropolitan "vets" say the tram companies are to a great extent responsible, as they put down salt to make the track clear when frosted, and the salt increases the irritating power of the mud. This may be so; but horses are suffering just now that have never been in a town at all, and on chalky and clay soil alike, so that many horsemen think the disease comes from within, and is but a local manifestation of a systemic condition.

The horse, be he carriage, hunter, or other breed, comes in all plastered with mud, and is washed, dried (more or less), and put away for the night; if badly attacked he will be feverish and off his feed in the morning, stiff behind, and sore to the touch all down the fronts of the hind legs, and often all along the belly; the hair comes off very quickly, and the outer skin, or cuticle, desquamates to such an extent as to leave a raw surface and very great tenderness. Sometimes there is great swelling of the hind legs, the front ones participating to a lesser degree, and the belly often much swollen right along to the posterior portion of the sternum. In very bad cases the whole surface assumes a confluent mass, and the constitutional symptoms are proportionately severe, the thermometer registers 104° to 105°, and the

animal rapidly become emaciated.

The treatment will, of course, vary somewhat, according to the severity of the attack, but the principle of it will be to reduce the pain and irritation, and prevent the malignant condition above described; to lower the temperature and restore appetite, and make the horse sufficiently comfortable and supple in his limbs to lie down on a good bed. With these objects, then, first foment with a lotion composed of glycerini, Oss.; aquæ, Cj., at a temperature of about 100° F.; and having with this softened off-and not rubbed-any adhering dirt or serosity, carefully dry the parts with a very soft towel, or lint, and apply one of the following lotions:-

		Acid. carb		• •	• •	• •	• •		3j.
		Glycerini		• •			• •		Зij.
	3.1	Aquæ ad Ft. lotio.		die ut	end.	••	• •	••	Oj.
vel.	TiT.	1 (. 10010)	101	are un	cmu.				
,		Acid. carb			• •				31.
	M.	Ol. sesamæ Ft. lotio.		olic. or	nni di	e.	••	••	3x.
vel,									
		Liq. plum		• •	• •	* *	• •	••	Зj.
	м.	Ol. lini Ft. lotio.		ni die.	• •	••	••	••	Oj.

All the foregoing are well-tried and old friends of good veterinary surgeons. The last named is much favoured in the south of London in ordinary cases, and the carbolic form when there is a tendency on the part of the skin to slough.

The benefit of very-much-diluted glycerine with which to bathe the inflamed parts can be scarcely credited by those who have not used it, and we know of a celebrated lotion which is composed of nothing else, but for the addition of a little liquor rosæ, with elaborate directions as to the use of rain water with it, &c. Most of our readers are aware that glycerine, to benefit a washerwoman's arm, must be very dilute, and if the public were aware of this at least three times the

present consumption would follow. The char d heel of t horse and the cracked hand of the scullery id are ve much alike, and to be cured by dilute glyceria and irritat

As regards internal remedies. If the fever r s high, do of 15 to 30 minims of aconite (tincture), w. 3ij. chlo of 15 to 30 minims or acomite (uncture), w. 3ij. chlo hydras or pot. bromid. 3ss., bis die. If there linseed mashes or tea should be ordered, but it aloes give or other purgatives stronger than mag. p. fœnug., 3j., or other spice, to induce the he to eat With the abatement of fever small doses of ct. opil a spt. ath. nit.; 3ss. of each may be given, cif a ball preferred, give 9ij. pulv. opii, ammon. carb. 3j ini pulv. ut ft. bolus, bis die. A little daily exercise joined, however stiff and unwilling the horse r hetomo Carrots, bran mashes, &c., in small quantities tempt appetite and regulate the bowels, and on retur ig to wor good coating of the liq. plumbi and oil lotio some to powders in the daily food will help to get the ree in c dition again. The following is a good recipe:

> Sodæ chlor. Pulv. feenug.
> Pulv. gent.
> Pulv. ferri sulph.
> M. Ft. pulv. Nocte maneque c. cibo.

WORMS IN DOGS.

F the varieties of tapeworm infesting dogs, t common is the Tania marginata. Dr. Cobbold imates presence as in 25 to 30 per cent. of dogs in El and, 14 cent. Denmark, 75 per cent. Ireland. Sportin dogs, a rule, suffer more from tapeworms than house d and p as the larval or cystic form of some varietic nfests entrails of hares and rabbits, the "fifth quarter of whice

often the dog's share of the spoils.

Another variety, called Bothriocephalus, is find in and seaside dogs and cats suffer most from the The of Norway and Sweden, whose masters live al st enti upon fish, are hardly ever free from this kind tapewo The cat who follows the fishmonger's barrow a snaps the "unconsidered trifles" during the cleaning of h is a frequent victim, and wastes away to a shadow thout cause being, as a rule, ascertained. They are st different shadow thout cause being as a rule, ascertained. animals to treat, and, owing to their extrem scien ideas of sanitation, it is often impossible to whe medicines have acted upon them, except by the proven to be noted afterwards.

All the tapeworm class can be ejected by pul reca, that agent is worthy of the faith that was at one ne pla in it. If it fail, it is because the powder is old ? has its "virtue." Dog dealers and others are fully a eoft and prefer the difficult task of rubbing the is on

ordinary nutmeg-grater.

As dogs are of all sizes, from the nude little tier w owner prides himself on being able to put him in luart to the massive St. Bernard or great Dane, one notodown a dose without some sort of sliding scale; I this Cobbold, the celebrated helmithologist of the Fill Verary College, did by a distinct of the Fill Verary College, did by a did by a distinct of the Fill Verary College, did by a distinct of the of the dog. The practice of giving worm medic s of empty stomach has the sanction of long prac; the remedies often take effect when given in food—a t when given in given in food—a t when given in food—a t when given in bearing in mind if the animal wears a forbidding spread and the owner is unwilling himself to run the k. dose should be repeated at intervals of a few da as a worms are most tenacious of life and can "broke live just as well on if and can "broke live intervals of the state of th just as well as if entire—indeed, the tapeworm (8 di from all others, inasmuch as any two segments (improved and capable of odd some 30,000 eggs.

Ol. filicis can very seldom be retained long en h to effectual, but a very good pill made of the folloy a dients is often used with success, and, as it is a known from what particular kind of worm a dog infer it is worth while to a line in the success. it is worth while to give him a charge that will hi the

gr. ij.
gr. v.
gr. x.
Sufficient to make 4 Santonine Pow. glass ... Powdered areca Oil of male fern In silver leaf.

SOME MEDICATED WINES.

BY T. MABEN, F.C.S.

atten n was drawn some months ago to a class of prepa ions which seem to be held in considerable n by dical men, and consequently by the public. to the so-called medicated wines which pass under is nans, and are compounded of such ingredients as r sher, and meat, malt, iron, quinine, and so on. One ular he was very frequently prescribed, and I was ed fro several considerations to subject it to a some-close amination. From this I was led to investigate paract of a number of these wines, and this paper the ralt of a partial examination of seven samples. the vies contained meat, six of them malt, two iron, uining and one pepsine. Most of the wines had port as basis ne of them sherry, while two were evidently res of pirit and water variously coloured.

opend table giving the specific gravity, alcoholic con-total lids, &c., contained in each of the wines, her we those of a "three-shilling port" which I

ed for le purpose of comparison.

cific (wity.-It will be observed that in every case ecific avity is high, this being accounted for by the percenge of solid matter contained in the wines. ort wi residue and specific gravity are much higher the figes given in the text-books; and should wine of haract be made use of in producing these medicated , the rure of a large proportion of their residues is at explair. The figures may in some cases appear contory, is the variations may be traced to differences in aract of the residue.

oholic ontent.-The percentage of alcohol was estiby parie's method, which, though indirect, gives swhic closely approximate to the truth, but which tend by to be low. It may, therefore, be assumed confide e that these figures are under rather than over uth, as it need excite no surprise if we find the Inland ue au rities stepping in, and saying that these wines not be ld without a licence. I hardly think it will be sly diated that the medicinal or dietetic value of of the gredients of which the wines are composed is crease to any appreciable extent by the presence of a larg proportion of alcohol; and the fact that all wines intain from 30 to 40 per cent. of proof spirit ny opi on very suspicious.

d Resige.—This was determined by evaporation on a bath t weighings at intervals of one hour gave prac-const t results. The residue in most cases differed ghtly appearance from that of the port wine; the the ves made from sherry or artificially prepared,

fferencwas not very marked.

nin - ur of the samples gave abundant evidence of t, two f them were quite free from this substance, anoth showed a doubtful trace. The influence d by t nin over substances such as some of those ned in lese wines is so great that we cannot afford to it; a, if it can be proved that the presence of of tain is incompatible with that of other conats we asy be in search of, the question at once fies its very much. For example, a number of these are sa to be prepared from Liebig's Extract of Meat, e que on arises, Is this extract in whole or in part tible vh tannin? It is, of course, well known that inoids roper, such as fibrin and albumen, form ble cor ounds with tannin, and the same is the case gelatir. But fibrin is not found in commercial t of mt, and neither should gelatine be, as the latter o sens he constituent of flesh. According to Liebig If, the ray Bentos extract contains no gelatine, yet a on of at extract gives a copious precipitate with the control of the copies a copious precipitate with the copies of the copies e of the most important of the organic connts of sat is kreatin, and it is probable that excess pain projection projects this body entirely. In any case, it is certain hat the addition of tannin throws down a pre-

cipitate which consists of from 15 to 20 per cent, of the extract. Since extract of meat contains nearly 20 per cent. of water, and about the same proportion of mineral matter, it is obvious that one-third of the organic matter is altogether lost, and that, too, the most valuable part of the extract, as it will in all probability consist of the nitrogenous constituents that may be present. Even if only 1 per cent. of extract of meat be added to port wine, a copious deposit takes place, which proves that a large proportion of the organic matter in meat extract cannot, if tannin be present, be held in solution, even if the wine to which it is added exist in this relatively large proportion.

It was thought that these facts might furnish a guide for detecting the presence or absence of extract of meat in the samples under examination; but while the further fact that samples 1, 2, 4, and 7 contained a considerable quantity of tannin was sufficient evidence to my mind that there was present in them none of the constituents of meat precipitable by tannin, it by no means proved that meat extract had not been added. All the samples were tested with tannin been added. solution, with the result that Nos. 3, 5, and 6 gave copious precipitates, while the others gave no precipitate; conversely, all the samples were tested with meat solution, with the result that samples 1, 2, 4, and 7 gave dense precipitates, and Nos. 3, 5, and 6 were unchanged. Notwithstanding this, it is perfectly possible that extract of meat had been added to all the wines, and that in some cases, through the ignorance of the manufacturer of the reactions that took place, some of the most valuable constituents had been thrown down, and left as a worthless deposit—as, indeed, it was when the wine was sufficiently clear for bottling purposes. These results, therefore, being of no value for quantitative purposes, recourse was had to another method.

Potassic Chloride.—The mineral constituents of meat consist for the most part of phosphate and chloride of potassium, together with other salts in smaller proportion. Liebig's extract of meat contains about 20 per cent. of mineral matter, and the sample with which I have been working gave 7.6 per cent. of potassium chloride. If we can be certain that no hydrochloric acid has been added in order to dissolve quinine, or for any other purpose, we have here a readily available means for ascertaining the quantity of extract of meat that has been added to any sample. not attempted to separate or estimate the free acid, but I assume throughout that all the chlorine is derived from meat. This assumption is obviously most favourable to the wine, as it gives us the maximum amount that can by any possibility be present. The chlorine was estimated volumetrically with decinormal silver nitrate, using potassic chromate as an indicator. The red colour of the wines, in some cases, obscured the end reaction, so recourse was had to decolourisation with animal charcoal. The mean of three estimations

has been taken throughout.

Extract of Meat.-From these data, therefore, I estimate the quantity of meat, or of meat extract, that has been added to the wine. In some cases a proportion of the organic constituents has undoubtedly been lost; the figures in the table represent the quantity that was originally present. Samples 1, 2, and 4 are all made by one manufacturer; they are the same, except that No. 4 is said to contain iron. Nos. 1 and 4 were obtained through the ordinary trade channels, No. 2 was a sample sent to a medical man. The analytical results indicate that the wines are very uniformly prepared, the varia-tions being extremely small. Sample No. 4 does not contain a trace of iron, and is, in my opinion, in every way identical with Nos. 1 and 2. These three samples contain the remnants, so to speak, of 1 per cent. of extract of meat, and on the average each ounce of the wines contains rather less than 2 grains of the soluble organic matter in meat; not a very brilliant achievement certainly! Nos. 3,6, and 7 gave rather better results, but even in these the quantity of meat is so insignificant that it can be of very little value under any circumstances. No. 5 is a much more satisfactory preparation. According to the label every ounce contains the soluble constituents of 875 grains of beef. If we assume that 34 lbs. of beef give 1 lb. of extract, which is the proportion given by Liebig, my figures indicate that every fluid ounce of the wine represents 866 grains of meat, a difference of only about 1 per cent. Judging from the appearance of the residue, and the percentage and character of the ash, I am quite disposed to believe that the statement on the label, in so far as it relates to the beef, is substantially correct.

Extract of Malt.—The same line of argument adopted in regard to the influence of tannin on extract of meat may be employed in reference to its action on extract of malt. The value of the latter preparation depends very largely on its proteolytic power; in other words, on the proportion of active diastase which it contains. If a solution of malt extract in water be treated with excess of tannin, a whitish gelatinous precipitate is thrown down, and the presumption is that the deposit consists of the nitrogenous elements in the malt combined with tannin. If this deposit be separated by filtration, and the filtrate tested with starch and iodine, some indication ought to be given whether or not the malt is changed for the worse. A solution of malt extract was thus treated, and a portion of the filtrate was tested alongside a similar portion of the solution under identical conditions. It was found that the solution of malt had entirely changed the starch within half an hour, while the starch iodide reaction was unaltered at the end of three hours in the case of the filtrate from the tannin-malt solution, showing the entire absence of diastasic power in the latter. From this I infer that wines containing tannin, such as port and sherry, are utterly unsuitable as vehicles for the administration of malt extract; and if malt extract has been added to samples 1, 2, 4, and 7, as from the appearance of the residue I have no doubt it has, it is now in such a condition as to be worthless, in so far as its proteolytic or diastasic power is concerned.

Iron.—Samples 4 and 5 are said, according to the label to contain iron. No. 4 contains not a trace, but so small that it could not be estimated Each $\frac{1}{2}$ oz. is said to contain a grain of iron, the mark when I say that the entire bottled half a grain altogether.

Quining.—Samples 5 and 6 contain quining the quantity obtained from No. 5 being very nearly what it is said to contain, viz. half a grain to the ounce.

The conclusions to which I have come regard; these wine are sufficiently indicated throughout these narks, but wish specially to emphasise the fact that; the sample contain an altogether unnecessary quantity of cool, which it is feared, may for many patients prove a rare. I have satisfied myself that this is unnecessary, as wine much stronger in meat even than No. 5 may be sa factorily prepared without such a large percentage of regard to the other wines, their medicinal an lietetic value is so small—the organic constituents of at in them ranging, at the very outside, from 2 to 4 grain er fluid or, that it is difficult to understand their raise difficult to understand t

All the wines contain meat; all except No. Untain malt Nos. 4 and 5 are said to contain iron; Nos. 5 d 6 contain quinine; and No. 7, pepsine.

Sample No.	Specific Gravity	Absolute Alcohol by Vol., per cent.	Total So ids, per cent.	Chlorine as Chloride of Potassium. per cent.	Extract of Meat, per cent.	One Fluid Ounce of Wine contains of Meat Extracive and Salts, in grains	Tannin	Iron	Quinine, per cent.
1	1.024	15•49	12.69	· 0 39	1.17	4.17	alundant	_	
2	1 024	15-12	12.68	030	1 05	3.75	91		- /
3	1.026	19.18	13.66	.113	1.55	5.55	trace ?	-	- }
1	1.024	15.49	12:40	.083	1.09	3.9	abundant	none	-
	1.014	19.45	10-45	·438	5 76	20 41	none	trace	0.1
5	1.008	15.77	8.43	•193	2.54	8.51	,,		02
7	1.016	15.53	10.02	·134	1.76	6.15	aburdant	-	_
Port	1 004	19 68	8.76	-	_		,,,	_	-



Viterary Hotes.

A Manual of Organic Materia Medica. By John M. Maisch, Ph D. Philadelphia: Lea Brothers. Third Edition. 12mo. pp. xvi + 532.

AMONGST the manuals of the materia medica of the vegetable and animal kingdoms written in the English language, this one by Dr. Maisch is in certain respects unique. It is essentially a student's manual, giving simple and brief details of the origin, habitats, characters, constituents, and properties of the various drugs, and it has what text-books, as a rule, have not—viz. excellent engravings of the histological structure of nearly 300 drugs. The arrangement of the volume is unusual, and is based partly on the origin and partly on the histological character of the substances. Thus, Part I. includes all animal drugs; Part II. treats of cellular vegetable drugs; and Part III. of drugs without cellular structure. The subdivisions of Part II. illustrate the system of study. It is divided into twelve groups, eleven of which relate to drugs which are distinct

organs of plants, the twelfth comprising such and ergot. The manner in which each drug exceedingly precise, there being no attempt student with facts or details which are not benefit to him, or which may be difficult of a mination at the stage of mental development which preced. The book is one which we can recommend, and it adapted to the British Pharmacopeia would in this country.

The Chemistry of the Coal-tar Colours. Transl d from the German of Dr. R. Benedikt, and edited t E. Knecht, Ph.D. London: George Bell & Sons. Pp. 8. 5s.

This is one of a series of technological hand deals with a subject the importance of which facturing industries of this country cannot he book is intended as an elementary manual or in the larger text-books, which hitherto have it the field undisputed, and it treats of the manufacture, course of artificial dye-stuffs, showing how they are and related to each other, the changes which in course of manufacture, and their more command cluemical properties. While the scientific subject is all that could be desired in such a subject is all that could be desired in such a subject is all that could be desired in such a subject is the fact that it contains all information trade names of the various colouring matters, they are them.

Trade Report.

e to Retail yers:—It should be remembered that the quotations in this section are variably the lowest net cash prices actually paid for large wantities tbutk. In many cases allowances have to be added before relatively prison be ascertained. Frequently goods must be picked and orted to a he demands of the retail trade, causing much labour and be accumuion of rejections, not all of which are suitable, even for wanufactur purposes.

ould also recollected that for many articles the range of quality is

42 CANNON STREET, E.C., March 15

Edrug al chemical markets are almost stagnant, and the alterions in the position of such articles as have rgone a ange only of a minor character. As regards s, higherrices for opium are wired from Smyrna, but own meet has not responded. Tuesday's cinchona ions resud in a slight advance, and quinine is also er. Therare signs of some sort of a rally in the quotans for n cod-liver oil. Calabar beans are dearer, and y considable advance is reported in Gninea grains. ntial oilof lavender (French) and otto of rose are er, and f civet is said to be scarce. At to-day's gum lous Ghat sold generally at higher rates, and Madaranimi ought very high rates. There is some immement in ange shellac, and the tea market exhibits derable mness. As regards chemicals, bleaching der and nate of soda are dearer. On the other side of balance whave to record a fall in the price of citric tartarical, low rates for quicksilver and mercurials, ell as for lorate of potash, canstic soda, soda crystals, m of tarl, and sulphate of ammonia. Camphor and nic are raer easier. From Sicily we hear that oils of amot and mon are obtainable at a fraction less money. es are gerally dull and lower, notably, cloves, ginger, Singaporolack pepper. Linseed and olive oils show thess, anat to-day's anctions lower figures were aced for Ad sorts and Egyptian amrad arabics. Button and black mbier have slightly declined.

ESHAR IN THE LONDON PRODUCE CLEARING-SE are be; briskly dealt in in the market. Last week premium (ainable declined to 3l. per share, but since it has gain advanced, the closing quotations on nesday be 3 4l. to 4l. 5s. premium, as against 4l. 12s. 6d. 17s. 6d. (Tuesday.

HE PRODIE CLEARING-HOUSE. — The idea of a rival ing-house as not, so far as we can learn, assumed a substant character since last week. Meanwhile, examines runther higher again with regard to the exist-company. We were told that one of the 100 founders' es, of the minal value of 102, was sold on Tuesday for price of 2,52, another one having changed hands a few earlier fol,750. The explanation of this apparently avagant fire is that one-fourth of the profits, exceeding reat, is cided among the holders of the 100 founders' es, so that upposing the net profit for the year to be, 100,0007, at the rate of 20 per cent., holders of orditions are would receive a fraction over 33s. interest, those of the founders' shares of equal nominal value in the state of 12s, or 1,756 per cent.

The Directors of the Chemische Fabrik Auften in Beil, better known here as Schering's Works, decided the deviation of 24 per cent. For the year is the theorem of the sense of the Lyions year's, and, according to appearances, her progressial by made in 1888. Several new pretions have ately been added to the list of the firm's been abanched for the present.

HE BRAZIAN DRUG TRADE.—The value of the imports bemicals io Rio de Janeiro during the financial year

1886-87 is declared at 2,278,962 milreis, of which 554,650m came from the United Kingdom, and 418,712m. from Germany. In 1885-86 the figures were 2,375,617m. (United Kingdom 549,862m., Germany 408,782m.) Of articles of pharmaceutical interest the imports are given as follows:

		1885-6	1886–7
Seeds and plants	Ms.	2,123,727 608,888 291,204 2,913,603 563,363 198,104	2,072,997 407,094 344,244 3,080,795 519,678 183,492

Russian Customs Regulations.—Complaints are constantly received by the British Ambassador at St. Petersburg from commercial bodies in England of the infliction of heavy fines by the Russian Customs anthorities, and it is now pointed out that in many cases fines incurred in accordance with the strict letter of the Russian Customs regulations are not enforced, but that, nevertheless, the exporter is charged in the account by dishonest clearing agents as though the fine had really been exacted. It is therefore advisable that in all cases agents should be called upon to produce the official receipts for fines stated by them to have been paid.

THE BORAX COMPANY.—At a general meeting of the shareholders of the Borax Company, held in London on March 8, it was stated that the company has purchased the right of working for fifty years two mines in Asia Minor containing boracite, from which borax, boracic acid, &c, are manufactured. It has also purchased a factory near Paris, which is capable of turning out the full quantity of borax products for which a market can be found. The two mines are expected when in full working order to yield 9,000 tons of boracite per year.

EXPORT DUTY ON SOUTH AMERICAN CINCHONA.—It is said that from May 1 an export duty equal to 3d. per lb. will be levied on all cinchona bark exported from Bolivia. The report requires confirmation, as it does not seem likely that either the Bolivian or the Chilian Government (for probably the duty applies to barks shipped by Chilian ports) would impose a duty which will seriously interfere with the rising industry of cinchona planting in Bolivia.

GAMBLING IN QUININE.—Owing very likely to the speculative spirit fostered by the foundation of the new Clearing House, one or two well-known dealers in quinine are endeavouring to extend to that article the system of "option" dealing which has already been tried, with some apparent success in quicksilver and a few other articles. The "system," which differs in no distinguishable measure from a lottery, is worked as follows: The seller offers quinine on the basis of fair commercial quality for delivery at a stated future period. The buyer pays 1d. per oz. down, and if quinine, when the period of delivery arrives, has fallen in value, he merely forfeits his penny; but if, on the other hand, it has become dearer, he either receives quinine at the price contracted for or the difference between the contract price and the market value at the period of delivery. The seller has the option of delivering any one of four German brands, which we understand to be those of the Frankfort, Auerbach, Stuttgart, or Brunswick factories. We have not heard that any considerable business has been done in this way up to the present.

ACID (CITRIC) extremely quiet and rather lower, say 1s. $6\frac{3}{4}d$. to 1s. $6\frac{1}{2}d$. per lb. There is next to nothing doing in this article.

ACID (OXALIC).—In fairly steady demand at $3\frac{1}{2}d$. to $3\frac{3}{4}d$. per lb. Sal acetos quiet and neglected at $5\frac{1}{2}d$. to $5\frac{3}{4}d$.

ACID (TARTARIC). — We hear that one of the English makers has sold this week at the rate of 1s. $6\frac{1}{2}d$. per lb,

which would mark a decline. We have not been able to verify this statement, but it is certain that such an offer was made. Foreign acid flat, at 1s. $6\frac{1}{5}d$. to 1s. $6\frac{1}{4}d$. per lb. nominally, but it is said that a holder this week tried to sell 20 cwt. at 1s. 6d. and could not find a buyer.

ACIDS (VARIOUS).—The following are the current quotations for some of the principal acids used in pharmacy:—Acetic, B.P., 24s. per cwt.; ditto, glacial, 9d. per lb.; benzoic, ex resina, $5\frac{1}{2}d$. per lb.; carbolic, B.P., 1s. 8d. per lb. in bottles; gallic, 3s. 6d. per lb.; nitric, commercial, 1360, 28s. per cwt.; B.P. 1420, 38s. per cwt.; pyrogallic (English), 1s. 9d. per oz.; pure sulphuric, B.P., $2\frac{1}{2}d$. per lb.

AMMONIA SALTS.—Carbonate neglected at 4d. per lb. less a heavy discount. Salammoniae remains at 34s. for first and 32s. for second quality. Sulphate has experienced a good many variations, and closes dull and slightly lower. London 24 p.c. grey, 12l. 5s., at which some small business is reported. Beckton sulphate, nominally, 12l. 12s. 6d. Hull, spot, 12l. per ton, and Leith also 12l. per ton.

ANISE quiet, although there is still a fair demand. Russian seed is obtainable at from 19s. to 22s. per cwt., according to quality; Italian, at 40s.; and Spanish, at 44s. or 45s. for ordinary qualities, although fine Alicante seed is worth as much as 52s. per cwt.

ARGOL.—A shipment of 106 bags Cape argol was bought in at Tuesday's auctions at 75s. to 82s. per cwt., according to quality; but two bags, rather ordinary dark red, sold at 66s. per cwt.

ARSENIC is now in somewhat better supply, and may again be bought on the spot at 11s. 6d. per cwt. for white powder in barrels.

BLEACHING POWDER is rather dearer, being in very limited supply just at present. On our market, 8l. 10s. to 8l. 15s. is the ruling quotation, while the Tyne prices have advanced to 7l. 8s. 9d. to 7l. 10s. per tcn.

BORAX.—There is nothing new to report just yet. The price of *English* refined borax still remains at 30s. to 32s. per cwt., according to brand.

CALABAR BEANS have further advanced at Liverpool, with sales up to 8d. per lb.

CAMPHOR.—Our imports of *crude* Japanese camphor are still rather heavy, and very little business is being done. For arrival there is a good deal of pressure to sell, but purchasers are holding off. Japan camphor on the spot is nominally quoted at 77s. 6d. per cwt., but less would probably be accepted. The English manufacturers of *refined* camphor have recently reduced their quotations, and now offer bells (in 10 cwt. lots) at 1s. $1\frac{1}{2}d$. per lb.; in smaller wholesale quantities at 1s. 2d. per lb. Flowers are quoted at 1s. to 1s. $1\frac{1}{2}d$.; and tablets, according to size, at 1s. $2\frac{1}{2}d$. to 1s. 7d. per lb. Foreign refined camphor is offering at a fraction below these prices.

Canary Seed.—There is no change of any great importance in the position of our market. Dutch canary seed moves off steadily at 43s.6d. to 48s., according to quality. Syanish seed quiet for common and medium grades, for which from 49s. to 54s. is required; but very fine seed is rare, and firmly held up to 58s. per cwt. The arrivals of Turkish seed being rather plentiful, only lower prices could lead to business of any importance; but holders do not seem very anxious to realise, and hold at 45s. to 47s.

Caraway Seed.—Still declining. Russian is nominally held at 20s. to 21s. per cwt., but owners would very likely make concessions. Morocco seed, 21s. to 22s., and Dutch, 24s. 6d. to 26s. per cwt. The cultivation of caraway seed in Germany is assuming considerable proportions, notwithstanding the Germans find it difficult to compete even on their own markets with Dutch and Norwegian caraways. The German variety rarely yields over 4 per cent. essential oil, while the Dutch contains from $5\frac{1}{2}$ to 6 per cent., and also yields a finer quality of oil. It is thought that the humidity of the soil in Holland favours the growth of the caraway plant. As regards quality, Dutch caraways are the best, then follow German raised from Dutch seed, German from native seed, and, finally, Russian. At the spice auctions 120 bags Dutch seed sold at 24s. 6d. per cwt.

CHAMOMILES.—The feeling in the market has again become quiet, but prices are unaltered.

CHAMOMILES (GERMAN).—The coolness of moisture the last spring damaged the crop of flow collected only a trifle of first-class chamowere sold quickly at advancing prices. quality there has been a large crop, and first received cheap offers, so that dealers could In consideration of the scarcity of the first quere compelled to buy seconds, which a per cwt.

CINCHONA.—The supplies offered on Tut ay were vilight, being composed of about 1,850 kages Sou American, 950 Ceylon, and East Indian, and 34 Java ba There was a very good competition, and post of tusual buyers secured a fair proportion of tots, thou the agents for the Mannheim quinine we bought largest quantity. The unit is generally plad at 21d. $2\frac{5}{8}d$., and the average increase in value at by 5 per ce Very little bark of Eastern growth was bout in, and t demand for American barks was also better It should noted that Indian cinchonas have been arrilg here mu more freely during the present year than any form period. The Ceylon shipments, so cablegram om Colom say, are still decreasing. The following pric were paid:
SOUTH AMERICAN BARK: Ledgeriana, from the Bolivi plantations, newly imported, fair to fine be quill, 8d. 1s. 1d. per lb. Columbian, soft and woody, 3a 3d. per New Granada, $2\frac{1}{2}d$. to $3\frac{1}{2}d$. per lb. Cuprea, which a lar quantity was offered, was all bought in; but is said the this bark finds a good sale privately. CLON BAR Succirubra, natural branch young to fairly go, 3d, to 2d chips, young mixed to good, 2d. to $6\frac{1}{2}d$.; spoke avings, on mixed, $2\frac{1}{2}d$. to 3d.; fair to good, 4d. to 7d. ot, dollwe to fine, 2d. to $9\frac{1}{2}d$.; renewed, ordinary, $2\frac{1}{2}d$.; 1 lium to fi shavings, 4d. to 10d. Officinalis, branch, 2d. nixed chi $3\frac{1}{2}d$. to $4\frac{1}{2}d$.; spoke shavings, $4\frac{1}{2}d$. to 6d.; roc $3\frac{1}{2}d$ to 11dThe starting of the starting o chips, common to fine bright, $2\frac{1}{2}d$. to 6d.; see sharing good, 3d. to $8\frac{1}{2}d$.; very fine shavings, 11 (Neilgherry), chips, young and quilly mixed, 11 to 11 to 12 to 12 to 13 to 1Sharings, oa.; renewed ditto, the miled, oa. to a.; mose $8\frac{1}{2}d.$; Robusta, branch, 3d; renewed, $6\frac{1}{2}d.$; moil, 8d. Jan Bark: Ledger branch, $2\frac{1}{3}d.$; bold ditto, $4\frac{1}{3}d.$ ships, and common, $3\frac{1}{2}d.$ to $6\frac{1}{3}d.$; good to fine bright it $8\frac{1}{3}d.$ to 1 root, $9\frac{1}{3}d.$ to 11d. Succirubra, quill, bold and lesslever by slightly damaged, 9d. to $9\frac{1}{3}d.$ per lb. It is fact worth noting that the proportion of direct shipment of circles from Lava to England as compared with the expression of the contraction. from Java to England as compared with theex is from the island to Holland has decreased during 1886 robably account of the greater facilities which are given f storing bark at Amsterdam as compared to a calle of year ago, and the system of publishing the alysis which prevails at that port. The following, accord to Data official statistics, were the shipments of Java thona from the property of the shipments of Java thona from the property of the shipments of Java thona from the private plantations during the first ten months 1887:-1887 1886

The direct importation of cinchona bark from Germany has been much facilitated by the establishment of the subsidised steamship lines. On February North German Lloyd steamer Salier called at the first time, and brought away direct bark is ments for the shipments of cultivated Calisaya bark from plantations are increasing. In 1885 only 2,5 package came to London from this source; in 1886, 3, 1, and it is substituted to the call of the

CIVET is said to be very scarce here, the best being it the hands of a few holders only, who ask high less, up to 12s. per oz., it is reported, for the best.

CREAM OF TARTAR has been steadily declinic since las

and closes at 122s. for first white, and 120s. per cwt.

The new Java crop is said to have yielded from 0.040 piculs (1 picul = $133\frac{1}{3}$ lbs.).

min EED.—There is but little available of good Malta and 0s. would have to he paid, perhaps slightly more one ed. East Indian cumin may be had at 36s. to per ct.

ENUCYEK SEED.—Our supplies of Mogadore seed are to be limost at an end, the nominal quotation remaining 8s. 9s. per cwt. New Egyptian seed finds a ready tet a s. 6d. to 7s. per cwt.

At the auctions on Tuesday a parcel of 105 cases we in ort was shown, but bought in at nominal rates. For (cases) at 62s.; Shanghai (38 cases) at 57s., and are (cases) all country damaged at 55s. per cwt., pt tv cases of the latter, hadly damaged, which sold at per wt. The galls continue to arrive on a liberal e, ar there is very little husiness doing, although ers sm less inclined to part at the bottom figures only ached. From 57s. to 60s. 6d. per cwt. may be inably to 55s. to 55s. 6d. per cwt.

AMBI is offering cheaper privately, there being sellers Marc April shipment at 22s. per cwt., whereas a few ey asked 22s. 3d. per cwt. There is no demand by importance.

cers all asking 75% per ton for double distilled, s.g. 0, wita quiet market. Should the American customs of 5 nts per lb. on distilled, and 2 cents per lb. on egyrine be removed, it is thought likely that some concern y take place in the quotations here, for hitherto Amerius have bought crude glycerine and refined it in State; he cost of refining heing less than the difference cents rlb. in the duty, but if the article be admitted free fill pathem better to import distilled glycerine from ope, occially because it is currently stated that the ducerst crude glycerine have sold nearly the whole of reproduction for a long time forward. But whatever demands taken as regards the glycerine duty, no excepal rus s expected from America.

UNE GRAINS.—The arrivals from the West Coast have pratherestricted lately, and this has encouraged holders tand of for better prices. Up to 30s. per cwt. is now ad. T. Hamburg market is stated to have been cleared Amerin purchases. Twenty bags were bought in at 30s. the land the succious, more than would be obtainable, withst ding the momentary scarcity of the article.

um A MI.—Madagascar is in very good demand, and at hi rates, yellow sorts, 7l. 15s. to 7l. 17s. 6d.; compate, s. to 6l. to 5l. 10s.; pea and bean dull red to pale, s. to 6l. 15s.; peas, 58s. to 67s. per cwt. Zanzibar mis ne octed, and only a few lets sold at 8l. 2s. 6d. to 5s.

ch we imported from India, came up for sale at to-day's tons, tonly about 600 packages (mostly offered "withreserv") found buyers at irregular rates, Egyptian Amrads og mosy lower. Bombay Amrads fairly steady, though muclinquired for. Ghatty firm, and occasionally muclinquired for. Ghatty firm, and occasionally see, 64s. 67s. 6d.; brown and rather ordinary, 62s. 6d.; ody ar common, 47s. 6d. down to 40s. 6d.; pickings, to 11 6d.; Madras, dark and blocky, 44s.; Amrad, rly goo red, 69s.; dull and dark, 45s.; Oomra, glassy, at 54 6d.; fine frosty amber and pale, 6l. 2s. 6d. per cot off Moglore Amrad at 8s. to 86s. Egyptian Amrad, extended Moglore Amrad at 8s. to 86s. Egyptian Amrad, extended Moglore Amrad at 8s. to 86s. Egyptian Amrad, extended Moglore Amrad at 8s. to 86s. Egyptian Amrad, extended Moglore Amrad at 8s. to 86s. Egyptian Amrad, extended Moglore Amrad at 8s. to 86s. Egyptian Amrad, extended Moglore Amrad at 8s. to 86s. Egyptian Amrad, extended Moglore Amrad at 8s. to 86s. Egyptian Amrad, extended Moglore Amrad at 8s. to 86s. Egyptian Amrad, extended Glass 65s. to 31s. per cwt. Cape fair small brownish degat a Australian gums bought in, the latter at 85s. rest. rott. rininally. In Liverpool all varieties of gum arabic

are in fair request, but with the exception of Brazilian gum the business is small, owing to the limited supplies available. For a little parcel of *Turkey sorts* 15l. per cwt. has been paid, and 6l. 8s. 9d. for 12 serons fair *Egyptian Amrad*. 180 bags Brazilian gum have found buyers, at 46s. to 47s. 6d. per cwt. for rather blocky, and 50s. to 55s. per cwt. for dark to fairly light free quality. Another shipment of 609 packages of this gum has arrived, and this has caused owners to relax their limit a little. The gum continues to be in good demand, both for the home trade and for export. In Bordeaux a parcel of 50 bags Senegal gum of very fine quality is said to have changed hands at 360f. per 100 kilos, equal to 144s. per Detailed reports concerning the crop are shortly expected from the Senegal. We hear from Cairo that at the beginning of the present month a small parcel of ahout 30 cwt. of fair but yellowish and not sand-free Turkey sorts was landed there, and sold at once on the basis of 161. 16s. f.o.b. Alexandria. The last of the Cairo stock of Gchzirah gums, 31 serons, has also been sold at the parity of 5l. 6s. per ewt. f.o.b. Alexandria. In Red Sea gums the Cairo market was very brisk, and considerable transactions at rising prices, from 70s. to 140s. f.o.b. Alexandria being quoted according to quality. It is asserted that speculators in Trieste and Bordeaux are trying to depress the market for Senegal gums, in order to buy at low rates; but it is doubtful whether this manœuvre will succeed. The new Senegal crop generally arrives at Bordeaux at the end of February; but this year, owing to the floods which have delayed the collecting of gum, it is expected to be quite a month late.

GUM BENJAMIN.—Not improbably a further fall in prices may take place, for at the end of last week 259 cases arrived from Singapore in a single shipment.

GUM KOWRIE neglected, and fully 3s. lower for medium and ordinary qualities. Very fine pale transparent sold at 9l., fair to good amber three-fourths scraped, 66s. to 88s.

GUM OLIBANUM in good supply, but only about 150 packages out of over 800 offered were sold at unaltered rates, fair pale to good bold drop, 42s. 6d. to 51s.; pickings, ordinary woody to fine, 12s. to 18s.; siftings, 11s. 6d. to 12s.

INSECT FLOWERS.—The quotations may be called unchanged, although perhaps a trifle below the last quotations of 208s. for open, 217s. for half-closed, and 227s. for closed flowers (c.i.f. terms), might be accepted. The Trieste stock has been reduced within a month from 61 to 48 tons.

IODINE unchanged at 9d. per oz. for crude and 10d. for resublimed. Po assium iodide quiet at 11s. 3d. per lb.

LINSEED quiet and slightly easier for East Indian. The quotations now are: *Dutch*, 45s. per 416 lbs.; *Bessarabian*, good to fine, 39s. to 41s.; *Calcutta*, 37s. 3d. to 40s. per 410 lbs., according to quality.

MERCURIALS.—Although prices are far from stable we give the latest quotations, which, however, may perhaps prove from 1d. to 2d. per 1b. above those at which manufacturers would now be willing to sell. Calomel, 3s. 4d. per 1b.; Corrosive sublimate, 2s. 8d.; Red precipitate, 3s. 7d.; White ditto, 3s. 6d.; Mercurial ointment, 2s. 4d.; Blue pill, 2s. 6d.; Mercury, cum cretâ, 1s. 4d. per 1b.

Могрніа.—Still held at from 5s. 9d. to 6s. per oz. by the makers.

Musk.—Our imports since last week have been as follows:—Per Agamemnon, from Shanghai, 3 cases; per Valetta, viâ Colombo, 3 packages.

MUSTARD SEED quiet and without improvement. English white, 8s. to 10s.; Foreign, 5s. to 7s. per bushel.

NUTMEGS.—Our market remains very dull, and although only a small quantity was offered for sale, the better lots could not find purchasers at the prices demanded. Of 39 packages 25 were disposed of, small wormy Singapore at 7d. to 8d. per lb., fair West India (97) at 1s. 9d., ditto in shell (71 to 73) at 1s. 1d. per lb. Penangs bought in at nominal rates. At the end of last week our stock of nutmegs in first hand reached 4,173 packages, against 1,846 packages at the corresponding date of 1887. This is a slight decrease on our stock at the beginning of the year. The island of Banda (one of the Molucca group, north-east of Java) was visited by storms of great violence on January 1 and 10. The island is the centre of the nutmeg production, and large numbers of trees have

been uprooted, while from others the unripe fruits have fallen. For the next six months not even a moderate crop can therefore be looked for.

OIL (COCOANUT).—The market is extremely quiet, and prices are, if anything, slightly lower than when we last mentioned the article. At present Ceylon oil, on the spot, is quoted at 24l. 10s. for fair, to 25l. for fine quality, but forward delivery is offering at 24l. without success. Cochin oil, on the spot, is held at 27l. 10s. for good, to 28l. for fine quality; forward delivery, spring shipment, at 26l. 10s.; Mauritius oil, 25l. At the beginning of the month the statistics were as follows:—

					1888	1887	1886
Afloat from Cochin	and Cey	lon	 	tons	2,512	2,105	987
Landed Jan. 1 to	Feb. 28		 	22	577	6 3 8	746
Delivered ,,	,,		 	"	781	424	613
Stock March 1		• •	 	,,	1,450	1,267	1,664

OIL (COD-LIVER).—Speculative offers continue to depress the market, and have caused both holders and consumers to stand off, the latter because of the uncertainty which envelopes the future of the article, the former because they say that oil-making cannot pay at the figures now quoted. It is said that these quotations are so much lower than the actual state of affairs would warrant, that it is quite possible that little or no congealable or summer oil will be made this season.

OIL (OLIVE).—The market is almost entirely nominal, and sales are effected with difficulty and in a small way only. *Mogadore* oil cannot be quoted above 33l., while *Sicilian* is held at 34l. to 35l., and *Spanish* at 37l.

OILS (ESSENTIAL).—Star anise weak at 6s. 4d. to 6s. 5d. on the spot, with rather heavy arrivals. Bergamot is a fraction easier. Citronella does not improve: native oil may be had at $\frac{15}{16}$ d. to 1d. per oz. on the spot, and cheaper for forward delivery. French lavender, although holders still quote 7s. 3d. per lb. for bulk and 7s. 9d. per lb. for bottles, may soon be dearer, owing to the unfavourable weather in the South of France. The tendency is certainly firmer. Lemon a shade quieter. Lemongrass, of which 200 cases have just been received from Cochin, remains in a lifeless condition at $1\frac{1}{3}$ d. to 2d. per oz. Otto of rose is quoted about 1s. per oz. firmer by some holders. The prices are very low, and about two months have still to elapse before the new crop will be gathered. Peppermint—American H.G.H. in comparatively small wholesale lots 10s. 9d. per lb.

OILS (VARIOUS).—The following are the closing quotations:—Cortonseed oil firm—Crude spot, 18l. 10s.; Hull, 17l. 10s.; refined spot, 20l. 10s; Hull spot, 19l. 10s.; March-April, 20l.; May-August, 20l. 10s. Linseed closes lower and with a downward tendency—Spot, 18l. 12s 6d. to 18l. 15s.; April, 18l 17s 6d.; May-August, 19l. 12s. 6d.; September-December, 19l. 7s 6d. Hull also lower—Spot, 18l. 2s. 6d. to 18l. 7s. 6d.; April, 18l. 10s.; May-August, 19l. 5s.; September-December, 19l. 2s. 6d. Petroleum steady—American spot, $6\frac{c}{16}d$ to $6\frac{11}{16}d$.; month, $6\frac{c}{3}d$.; April and September-December, 6d. Russian spot, $6\frac{c}{16}d$. Rape oil without change, brown spot, 22l. 12s. 6d. to 22l. 15s.; March-April, 22l. 10s.; May-August, 22l. to 22l. 5s; refined, 24l. to 24l. 10s. Turpentine without change, American spot, 27s. 6d.; April-May, 28s.; September-December, 26s. 3d. per cwt.

OPIUM.—Our market remains unchanged, though from Smyrna higher prices are cabled in consequence of reported damage to growing crop.

PATCHOULY.—A shipment of 106 bales leaves were received here from Penang per Mary this week.

POTASH SALTS.—Bichromate remains quiet at $4\frac{1}{4}d$. per lb. Chlorate: The market has become somewhat demoralised, and $5\frac{5}{4}d$. per lb. is now the highest quotable figure. At this decline a fair business is reported. Prussiate without much demand at $7\frac{1}{4}d$. for yellow and 1s. $5\frac{1}{2}d$. per lb.

PUMICE STONE.—Fair quality is quoted here at 9s. to 10s. per cwt. In Italy picked pumice is dearer.

QUICKSILVER.—Remains lifeless, and second-hand sellers would be glad to take 8*l*. 2*s*. 6*d*. per bottle if they could find buyers at that figure. The imports of quicksilver in London during the months of January and February were: in 1888, 22,197 bottles; in 1887, 19,045 bottles. The exports in 1888, 3,757 bottles; in 1887, 9,206 bottles; and the stock,

including both first and second-hand at the end of is estimated at 54,000 bottles against 58,000 at exponding date of 1887. It is noteworthy that the quicksilver continue to decline, the falling off for months of December, January, and February by 7,02 bottles as compared with the corresponding on this of 1886-7, a fact which points in the direction of prices.

QUININE.—Before the cinchona auctions there is a decidedly easier feeling, and 1s. $8\frac{1}{2}d$. to 1s. 9d. per perhaps have bought German quinine in bulk, but in ediate after the sales the German agents received instruction sell under 1s. 10d. per oz., at which some are first the B & S brand is not quoted by the agents, while r Jobs & Zimmer's quinine 1s. $10\frac{1}{2}d$. is asked. We have that any business of importance has been done do not the theorem. Howard's, Whiffin's, and Pelletier's quotal is have not been altered.

SAFFRON firm but unchanged. Fine Valencia, 4 6d. to 49s.; Alicante, 36s. per lb.

Salicin remains firm at 20s.

SENNA.—With regard to Alexandrian senna, Cal report state that some inferior parcels had lately been reced, but were sold at once at high rates. No first-hand sto is not left at Caïro, and in the producing country very h price rule.

SHELLAC.—Last week closed with sales of secon range TN standard, January-March shipment, at 44s. r cwl c.i.f. terms. a decline of 3s. 6d. per cwt. for the k. A the auctions on Tuesday only 497 chests were ered, a quantity much less important than that brough brwam at recent sales and nearly one-half of this sole t very steady rates for orange lac, previous prices for gari and a decline of fully 1s. per cwt. on button, of which va ty 233 cases consisted. Fine orange ASSL Calcutta wei s and orange sold as follows:—fairly good, 47s. 6d. to 1; fahlivery, 44s. 6d.; Garnet AC, very good, free, 37s. to 3. 6d.; unworked and blocky, 35s. 6d. to 36s per cwt.; Butt good fair, coloured, fourth, 36s. 6d. to 37s. per cwt. Privat, business has also been done at a recovery of 1s. per tt, TN basis, February shipment having sold at 45s. c article closes better, and sales are reported at the for Second orange, TN standard, forward shipment, in for delivery, March at 46s., May 47s. 6d. to 48s.

SODA SALTS.—Ash is well inquired for, but fe sellers can be found, as nearly all the manufacturers have contained for their produce during the present month. The modern quotation remains $1\frac{1}{3}d$. to $1\frac{3}{16}d$., Tyne 1d. less a sount Biearbonate remains rather quiet at 5l. 10s. per cwt. until again weaker, although the low rates have somewhat imulated inquiry. Cream may now be had at 6l. 15s, at white 60 per cent. at 7l. per ton; 70 per cent. 7l. 7s. 6d ton. Crystals quieter at 45s. 6d. here, and 39s. to 39s. 3a and the Tyne. Nitrate again dearer, no arrivals having y taken place. On the spot 10s. to 10s. 6d. per cwt. must paid according to quality.

SPERMACETI.—The nearest price for refined Ame an is 1s. 7d. to 1s. $7\frac{1}{2}d$. per lb.

SPICES.—Arrowroot remains neglected, with small les of good St. Vincent at 3d., and fair to good Natal at 24a 21d. per lb. Of Capsicums two bales bold red stalkless N. sold at 56s. per cwt. Cassia Lignea very quiet at 23s. per cwt., with an enormous stock of 122,849 packages, bout 8,000 more than at the beginning of the year. Chil lifeless. One hundred bales Zanzibars were offered for c on Wednesday, but all bought in at 30s. per cwt. nomin y for stalky reddish. Cloves must be pronounced somewhat sier. Zanzibars at auction all bought in, fair at 8½d. to 83 Fifteen cases fair to good bright Penang, of rather old sold at 11d. to 113d. per lb. Our stock of Zanzibar (esis very large, 11,032 packages, against 4,423 last year, the stock of Penangs is only moderate, and that of A yma stock of Penangs is only moderate, and that of A cloves has been reduced to small proportions. Ginger is quiet, and lower prices must be accepted for old ing ruther arrivals of the new Jamaica crop are also ing now, and do not command the extreme rates recent and Of 291 packages old Cochin ginger only 110 of infer

diunquality were sold; fair plump medium (B) cut, 6,6d tips and cuttings, 20s. 6d. down to 16s. Of 227 ckag new Jamaica about one-third sold, small to medium shed not of good appearance, 51s. to 61s.; ordinary atoo 44s. to 45s. per cwt. First-class damaged Bengal dat 3. 6d., and limed Japan at 16s. per cwt. Our stock Coch and Malabar ginger is very heavy, but that of other letic has been much reduced. Mace slightly easier, and lof le. Penang pickings, 2s. to 2s. 1d.; common thin gapo, 2s. per lb. Black pepper dull, and lower. Holders Sing-ore especially seem more anxious to sell. Of 2,098 as offed at auction, 311 sold at $7\frac{3}{8}d$. to $7\frac{1}{8}d$. for fair yish b good Singapore, and 7d. to $7\frac{1}{8}d$. for good heavy est Cst Penang. For arrival lower rates have heen epte viz. $7\frac{11}{16}d$. for 70 tons Singapore, March-April shipn-the pepper quiet, with small sales of Penang at L. per D. Pimento neglected. Of 1,143 bags, only ahout sold t 2d. to $2\frac{1}{4}d$. per lh. for common to fair dusty.

CHICICALS IN THE NORTH OF ENGLAND.

che ical trade generally is in a state of depression, sed jtly by the fear of political complications, and sly by eculiar and special features, which are gradually only cat and important changes. The history of the bistory of a revolution, and the present period is of it most acute phases. There is scarcely a chemical chistor more or less affected. The alkalies are all ering om new and active causes. Soda ash—formerly rulin phemical of this class, in the earlier history of the le—is low to a great extent replaced by caustic soda; the anufacture of caustic soda, again, is changing, mar 60 per cent. white growing almost ohsolete, and e que little sheing now turned out weekly of 74, 76, and let the second state of the s

LEAC NG-POWDER, in consequence of a combination next akers to reduce the output, is the one chemical to he doubled its value, but certain experiments are g m,e on the Continent which, if successful, will affect the future of this article.

CRAX - The market has been peculiarly affected, in conlenced the advance in values made hy the Californian
lenced at their manufacture can he imported into the
lenced at their manufacture can he imported into the
lenced at the singular result has followed that Californian
lentered borax is actually 11. per ton dearer than Engrefiel, the Americans finding it cheaper to buy in
han to import from San Francisco—a condition
in the trade. The manufacture of borax is no
larged makers; France is increasing her output, and
larged makers; France is increasing her output, and
lace of selling all her horacic acid, converts a
mark, and with any important advance in prices, we
lid as a have East Indian borax made from tincal, and
lan, im borate of lime.

GERMAN VEGETABLE DRUGS.

CORN SPONDENT in Thuringia sends us the following notion the present position of some of the principal sanderbs cultivated in that locality.

JUNIPER BERRIES.—The last crop turned out much inferior to the preceding one, and in Thuringia we have collected only a small quantity. Stocks cannot, of course, increase hefore the next crop; on the contrary, they diminish more and more, and prices are pretty certain to rise.

CANTHARIDES.—The last Russian crop has been insignificant, and in the heginning of the season 15m. per kilo. (6s. 8d. per lb.) was asked and paid, hut the Hungarians collected large quantities and sold them to the druggists at full prices, owing to the firm tendency of the Russian owners. Unfortunately forcign orders have failed, dealers are without inquiries, and the article might at present be easily procured at 10½m. to 11m. per kilo. (4s. 5d. to 5s. per lh.). Holders of cantharides are making a had bargain, just as last year.

MARSHMALLOW FLOWERS.—The crop was so plentiful as to cause a decline of 90 to 100 per cent. in the value. In January, 1887, the article was quoted at 122s. to 132s. per cwt.; nevertheless the demand was hrisk. At present flowers without cups are in the market at 80s. to 90s. This is a price which leaves no profit to the grower, but for all that, there are no sales of any importance. Flowers with cups are more in demand, and have a firmer tendency, although they have lost in price and quote to-day at 50s. to 54s. per cwt.

POPPY FLOWERS.—The ahundant harvest of last year has removed the scarcity of this article, which generally was strongly felt every recurring spring. At present there are pretty large lots in the market, which are offered at moderate prices. Druggists can purchase first quality at 120s. to 125s. per cwt., and seconds at 93s. to 98s.

HERBE FARFARE IN FOLIIS.—The dry weather of last summer brought in a large and heautiful crop, and prices remain still 12s. 6d. to 15s. per cwt. The same holds good of WALNUT LEAVES and of MOTHER OF THYME, which are obtainable at advantageous prices.

SWEET MILFOIL (HERB. MAJORAN).—At the heginning of last year's harvest growers expected a poor yield, and quoted from 27s. 6d. to 32s. 6d. per cwt. This price kept up well for a long period, and druggists were forced to pay it hecause of the steady demand. Afterwards it became clear that the crop was not nearly so poor as had been expected, and this caused a stagnation which influenced the growers to hring stocks in the market. Large orders failed, the article hecame neglected, and it can now be purchased in quantities at 22s. 6d. to 25s. per cwt.

HERB. MENTH. CRISP. yielded a splendid harvest, but prices still continued at 50s. to 60s. for leaves and 30s. to 35s. for the cut herb, because a large quantity is used for making essential oil of spearmint, for which 16s. to 17s. 6d. per lh. is paid willingly.

ANGELICA ROOT.—The cultivation of this root last year was a limited one, and the article advanced a little, to 12s. 6d. or 13s. per cwt., hut still it does not pay the grower. The decline in price during the last years is principally the result of the over-production.

ELECAMPANE ROOT.—We have had a good crop, and the article is in the market at last year's quotation of $12s.\ 6d.$ to 13s. per cwt. for ordinary root. The supply of cleaned root is small, because the low prices do not pay cleaning.

RAD. LEVISTICI.—During the last few years this article has had an indifferent sale, and has suffered much from attacks of insects. The cultivation has heen reduced in order to create a better sale, and in the beginning of last season dealers were compelled to pay 17s. 6d. to 18s. per cwt. To-day the article is for sale at 12s. 6d. to 15s.

VALERIAN ROOT.—The last crop was a more ahundant one than ever hefore, and prices declined quickly from 32s. 6d. to 22s. 6d. or 25s. per cwt., which are to day's quotations. They will probably decline still further.

ERGOT OF RYE.—A temporary advance to 1s. 9d. per lh. was caused by a sudden demand. At that rate extensive purchases were made, but the activity soon slackened, and new crop is now for sale at 1s. 5d. to 1s. $5\frac{1}{4}d$. per lb.



Memoranda for Correspondents.

Always send your proper name and address: we do not publish them unless you wish.

Write on one side of the paper only; write early; and devote a separate sheet of paper to each query if you ask more than one, or if you are writing about other matters at the same time.

If you send us newspapers, please mark what you wish us to read.

Ask us anything of pharmaceutical interest: we shall do our best to reply.

Before writing for formula consult the last volume, if you have it.

Letters, queries, &c., not noticed in this issue will, if possible, be attended to next week.

The Pharmaceutical Society.

SIR,—I have often been snrprised by the tone of your correspondents when writing about the Society. Some men appear to think that when they have passed its examinations they should be furnished with a good business, a high social status, and an assured competeuce. Any result short of this is, to these men, a ground of dissatisfaction and complaint. This perpetual grumbling is not only unfair to the Society, but is misleading to the young men in our charge, in whom we would see growing up a feeling of admiration and respect for the body to which they must all apply for a diploma as a recognition of their scientific attainments. I say scientific because I think that very often a mistake is made on this point. A diploma does not make a good tradesman, any more than a literary degree makes a good preacher or an efficient clergyman. But a man with a degree or a diploma is nowadays in a position to take the higher rank or the better position, other things being equal. The world has its own opinion of a man who aspires to a scientific grade without being able to refer to an alma mater of some sort. I maintain that the Pharmaceutical Society, by keeping up the standard of its examinations, has very honestly discharged the important duties with which Parliament has entrusted it, and, having raised the "trade" to the rank of a profession, has made the chemist a man with a claim to the respect of his fellows. I am, therefore, always troubled when I see any attempt made to discredit the Society or to disparage its doings in the eyes of those whom we have undertaken to train up. We make our livings by our tact and hard work-not by imitating the hypothetical young gentlemen who have managed to get into some snug Government office. I was very much pleased to see that the Lords could so far open their understanding as to insert the "qualified assistants" clause in the Pharmacy Bill, and hope the Commons will not reject it. This new feature will perhaps be a caution to the corner or suburbs grabber.

Yours truly, HEDER. (17/46.)

The Medicine Stamp Act.

SIR,—Referring to your correspondence upon this matter, the Society of which I am the Secretary would undertake to fight a case of the kind referred to, and would coutribute towards the expense.

The difficulty is to find some person who is willing to run the risk of paying the costs in the event of non-success, but this difficulty might probably be got over if a sufficient fund were subscribed to indemnify him.

I cannot help thinking, however, that Mr. Finlay has taken a somewhat sanguine view of the matter.

I am, sir, yours obediently,

Boston House, Secretary (pro tem.) of the 63 and 64 New Broad Street, E.C. Incorporated Society of Chemists and Druggists (Limited).

SIR;—I am glad to see that the repeal of Medici Stamp Act is being brought forward in your value by correspondents. It, no doubt, would be a gree point of already over-taxed chemist if the medicine star away with, as, at the present time of low prices, falls sole on the chemist. Moreover, the opinions of at are a what are not liable to stamp duty differ so much, en, 1thir at Somerset House.

I have long ceased to look for any help from the Pharaceutical Society.

I shall be glad to give my mite, if others wil bin, to procure the repeal of the Act.

If a petition were sent to every town I the chemists would refuse to sign it.

Bedford.

H. DMPSON.

The Pharmacy Acts Amendment 11.

Lord Milltown's Amendment.

SIR,—I observe that an amendment to the Pl macy Bi to prohibit branch shops being managed by hers the legally qualified chemists, has passed through the House of Lords, and I note your common in your issue of March 10. As this is affecting a large number of men situated myself, I would earnestly urge all affected hardships of the case before their local mem is of Plantament, with the view of bringing as strong an osition possible to bear upon the amendment when is broughtfore the House of Commons. Were such an endme to become law, it would deprive a large num of expression of live hood.

I am more than amused, Mr. Editor, to me marks as to Lord Kimberley "wanting to have tions dispensed by a qualified man, and not by state it as a poisonous drug into his me." If you really mean, sir, that a youth of, say, 22 y so far who can write A.P.S. to his name, enjoys any ss probability of making a mistake than the man of expensed medicines, it may be, for ten or evithout error, and whose knowledge may be in ely surior to the inexperienced man who is legally of ified. The may not be generally known that at least 90 per at of the medical men now in practice have their prescipensed on their own premises by their own dispensed on their own premises by their own dispensed by air with or daughters, and in some cases even by their comments, if the clause be framed for the public processir, if the clause be framed for the public processir, if the clause be framed for the public processir, if the clause be framed for the public processir, if the clause be framed for the public processing dispensers employed by the medical faculty.

I enclose my card, and am, An Unregistered Manager. 1872.)

Homeopaths and the Minor.

SIR.—I belong to that much misunderstood of of inciduals known as "homœopaths," and to me strange anomaly that those who happen, by choic ignorance, to be trained as homœopathic chern have to take the Minor qualification before the position to become "chemists." Not that I think man cever learn too much. A man would learn in study for the Minor much that would be necessary to qualify man the mistry, botany, and general materia medica, and in homœopathic dispensing, who are yet preclaking the Minor, or qualifying exam., becames trangers to the routine and practice of ordinary dispensing and trade. I have been in my present early a decade, and have attained a certain amo ficiency in our line. Now, if I were by any chain the my position, I should have some difficulty in getting perhaps, with a homœopath (these gentlemen most their own assistants from apprenticeship), and compete for a situation at an allopathic chemist.

be he ly handicapped by reason of my slight experience of your opensing. If I am anxious and ready to start in business f myself, I am restricted from becoming a "homeopathic hemist" because I have not passed the Minor. The practi of medicine in homecopathy is widely different from that othe old school. Equally wide is the difference between e practice of homeopathic pharmacy and that of the alpath. Then why should the homeopathic assistant study, a necessity for qualification, the systems and practices h which he has had little to do in the past, and expecto have little in the future, and which may be quite antage stic to his pronounced views of modern pharmacy? We selvery little in the way of poisons, so this restriction is only a nall consideration.

Whave need is a qualifying board of our own, which chall ge a merited qualification to a competent homeeopath, hat h nay hold his owr, and not be in the peculiar position

n whi the present day finds him.

Yours sincerely, HOMEOPHARMACIST.

T) Incorporated Society of Chemists and Druggists (Limited).

SIR, Ir. J. H. Read, a member of the council of the bove viety, in his letter in your last issue, admits having nowiry assisted an unqualified person in floating a limited ompa for carrying on the business of a chemist and larger in order that the said unqualified person "might ot repr himself liable to proceedings"! This, he says, is

mare'nest.

Mr. Ind further admits that in addition to the annual ubscri on of half a guinea members of his society may be alled up to pay 21. more during the year, adding, "the robabiy of paying anything beyond the ordinary subscrip-lon is cremely remote." This may be so. As a member f the ocutive of the late Trade Association I was called pon to ay, and paid at the winding-up of that association, sum e eeding six times the amount of the annual subscripon! child once burnt dreads fire.

In co lusion your correspondent appears to dislike reference to e "self-elected councillors" of the Incorporated cociety and tells us they were "nominated by the articles f assortion." I suppose if the truth were known the article' were prepared under the instructions of the "counwere prepared under the institutions, o that the difference is very much that between tweed dum " and " tweedle-dee."

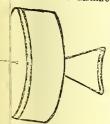
Yours faithfully,

3 Hig Street, Birmingham. March 13.

WILLIAM JONES.

A Home-made Telephone.

SIR,- notice in last week's C. & D. you recommend a orrespelent to construct a mechanical telephone with two ill hox and a piece of string. This, of course, will answer o a limed extent; but if you will allow me, I will describe more isfactory one which I constructed some time ago or the susement of a customer's children, which I believe ave evy satisfaction. The pill-box telephones soon come or grief, at the one I describe will, with care, last a condensal time and the distribution of the pill-box telephones are the condensal time. derahl time, and the distance at which the voice can be



heard is practically limited only by the length of string employed. First, take two turned-wood tooth-powder boxes—say 3 or 4 inches diameter—and in the centre of the bottom of each box, with an ordinary brace and bit, bore a hole large enough to admit an ordinary gutta percha mouth-piece, which may be secured

ith couline or other cement. Now procure a beast's adder, nd after softening with water stretch a piece string. Through the centre of this, when dry, erce a small hole, through which pass the end of the

Animal membrane is extremely tenacious, and this telephone will bear a considerable amount of usage before coming to grief. The string need only be pulled moderately tight for conversation to be distinctly carried on, not "over the wire" but over the string. I have always found it an advantage to try to please customers, and though I would not have a chemist become a toy manufacturer, yet where there is a sprinkling of science connected with the matter, a chemist shows his superiority to an ordinary seller of wares by being able to explain the modus operandi of even so small a matter Faithfully yours, as a mechanical telephone. SODA CARB. (10/32.)

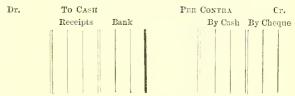
Glycerine for Constipation.

SIR,—Readers may be interested to know that the above remedy, recommended in your note last week, is effectual.

Having suffered from constipation for two or three days, I injected a small quantity of glycerine (about 2 drachms), which took effect almost instantaneously, complete evacuation taking place within two minutes. Yours truly,

C. G. (14/39.)

14/13. J. S.-Keeping a Cash-book.-The purpose of a cash-book is to keep a record of all items of receipt and expenditure. The balance of the accounts, if these are kept correctly, should of course correspond with the cash in hand. The dealing with cash paid into and drawn from the bank is a frequent occasion of confusion in many books, and to avoid this it is usual to adopt a doubleruled cash-book, which will check the banking account as well as the cash in hand. The following shows a convenient form of cash-book ruling for a retail trade:-



You would enter on the Dr. side of your cash-book each day's till receipts, and also each account as paid; and in the second set of columns you would enter all monies paid to your banking account. On the Cr. side you would show all payments made by you, those made by cheque being specially shown as drafted. You could deal with trifling payments by keeping a subsidiary or "petty" cash book. You would supply a small fund, say 1l. or 5l. at a time, for petty cash, and account for its expenditure by details in the subsidiary book. The sum drawn for petty cash would of course appear on the Cr. side of the cashbook. You could make up your cash account weekly or monthly as most convenient. Before making up all personal accounts on either side should be posted.

DISPENSING NOTES.

[The opinions of practical readers are invited on subjects discussed under this heading.]

Quinine and Mercuric Chloride.

SIR,—Should the following mixture become opaque? if so, what is the cause, how may it be avoided, or is there any incompatibility in it?-

> Liq. hydrarg. perchlor. .. 3j. .. 3j. Syrup. scillæ Acid. muriat. dil. 3ij. .. Quininæ sulph. gr. xviij. Aq. ad .. 3viij.

> > Yours, SQUILLS. (19/41.)

[The quinine is partly precipitated by the perchloride of dece of tring intended to be used, securing it on the intensity with a knot, and your telephone is complete. of the syrup, and the remainder to the liq. hydrarg. perchlor. Mix, and finish in the ordinary way, adding a "shake" label. The mixture cannot be dispensed clear.

A Pill Query.

SIR,—What excipient should be used to make the following a hard small pill?—

Acid. carbolic. gr. j.
Pil. asafætid. co. ,, iij.
Ft. pil.

N. S. (14/50.)

Hydrargyri Oxidum.

SIR,—In the following prescription what should be used for hyd. oxid.—the yellow or the red?—

TiT.

Also, which preparation is usually called hyd. binox.? Yours faithfully,

OMEGA.

[The red oxide (levigated) should be dispensed when the variety is not specifically mentioned. There are cases, no doubt, in which the yellow oxide may be indicated, but the above does not appear to be one of them. Hydrarg. binoxide is the ordinary oxide.]

LEGAL QUERIES.

12/26. Quibal states the following case, and asks for advice:—Two brothers, A. C. and B. C., succeeded to a chemist's business, the price of which was 800l, payable 400l. down, and the remaining instalment in twelve months. Neither of them had any money, so the 400l, for the first payment was borrowed. This amount having been paid over to the vendors, the parties commenced business, and it was intended they should carry it on as partners. They opened a banking account in their joint names, A. and B. C., and a notice was sent by the vendors to the firms with whom they dealt announcing the disposal of the business to A. and B. C., but that it was the latter parties' intention to carry on the concern for some time under the style of the old firm (being well known). No alteration was, therefore, made on the sign outside, or on any labels, except on one kind of label ordered just at that time the names A. and B. C. appeared in brackets underneath the names of the old firm. There was no deed of partnership drawn. The brothers could not agree, and in three months B. C. left, quite of his own free will, not having been sent away at all. A. C. then undertook the whole of the responsibility himself, had to see about paying interest on, and finally repay, the borrowed capital, and also to find the money to pay the second instalment for the business. As soon as B. C. left, A. C. carried on the business entirely in his own name, altered the sign, ordered new labels, and had the banking account transferred to his own name.

Over six years and a half have now elapsed, and B. C., who, in the meantime, has taken a business of his own, and is doing well, has not in any way interfered; but now, finding out that A. C. has repaid all the loans, &c., and quite on his own legs, B. C. now claims, through his solicitors, the sum of 500l. in full discharge of his claim as partner in A. C.'s business. I shall be glad to get your opinion morally and legally as to what amount, if any, you consider B. C. entitled to under the circumstances. I may add that A. C. only had the privilege of drawing cheques.

[There are hardly sufficient facts stated to enable a correct opinion to be given. It is important to know what capital, if any, was contributed by B. C. to open the banking account and for current expenses, and whether the business premises were conveyed to A. C. alone, and what conversations or arrangements took place between the two parties before B. C. retired.

More than six years having elapsed since the *de facto* dissolution of the partnership by the voluntary retirement of B. C., it appears, so far as can be gathered from the facts

stated and in the absence of any deed of part; the latter is barred from his remedy in the tape of an account by the Statute of Limitations, 21 Jam I. c. 16. Even if such were not the case, the claim for 5 appears to be far beyond anything to which he could entitled]

19/24. Cortex.—The manufacture of a perfum title of "Eau de Cologne" is evidently open tany one. Vendors would not be justified, however, in sellin her products labelled in a style which should colourably style of some established firm. It is true that 'Eau de Cologne" is named in the schedule of the Med ne-stamp Act, but the preparation there referred to is un stood to have been a medicinal cordial, and the Board f Inland Revenue do not enforce the Act in reference to perfume sold under the same name.

14/60. Cymraeg.—It is not essential that dentures should be drawn up by a solicitor. Stamped orms are issued by the Board of Inland Revenue, which wi be found sufficiently clear in most cases.

90/60. G. R. D. says he is insured in a Plate ass Company and in a Fire Insurance Company. One (is pierglasses lately got broken in the following way: he maid lit the parafiln lamp, and thoughtlessly placed on the mantelpiece in front of the mirror, and after a minutes the glass cracked. "G. R. D." applied to the de-Glass Company for a new glass; they say the claim doc of come under their policy. He gets the same answer from the Fire Insurance Company. Has he any remedy?

[It is impossible to give an opinion of any vie on the construction of the two policies without reading iem. It would, however, be a great stretch of language to determine the lighting of a lamp constitutes a fire. Unless, ereforen the fire policy is a much more liberally-worden ne that usual the fire office is not liable. If the pier-glass covered by the wording of the plate-glass policy, and the ter contains the usual arbitration clause, our corresponding to the requirements of that clause, as cannot bring an action until he has done so.]

20/52. A. P. S.—The Board of Inland Rever as a rule give notice before commencing proceeding generally inform the vendor that he is liable to a latty of ten pounds for having sold a certain article unstated they offer him the opportunity of giving any elements are actually taken. If he surre results they proceed the fine to 1%, 2%, or more, or person it altogether.

10/65. Pharmaeist.—Limousin's patent for capsules" is dated January 25, 1876, and claims themselves and the apparatus for preparing them know whether any subsequent patent for such a since been granted.

MISCELLANEOUS INQUIRIES.

A large number of correspondents ask us for form thich have already been published in this journal. If air to more careful readers that we should quantly repeat such information, and so long as the bac numbers containing the formulæ, or replies required, art print we must decline to do so. Back numbers from his 1886 onward can be obtained from the publisher at 40 sch.

Vaseline Cold Cream.—See p. 259 of curren olume. (16/10. Indagator.)

Angostura Bitters.—See p. 823 of our ne of December 24, 1887. (16/5. Bute.)

Silvering Solution.—See p. 176 of current volum (13.17.

J. H. Guskie.)

Mist. Bismuthi c. Pepsin.—See The Chei f AND DRUGGIST, November 26, 1887, p. 689. (15/57. Q Naye.)

omac c Candy.—See THE CHEMIST AND DRUGGIST, 23, 17, p. 110. (Another formula will shortly appear. 7. 4.2.8.)

quid Starch Gloss.—See THE CHEMIST AND DRUG-, Augt 20, 1887, p. 233.

Books.

71. etfast.—For information regarding the manutre of rdials see the book recently published by Messrs. Howell, price 2s. 6d. British wines are dealt in the Licensed Victualler's Manual" (Simpkin, hall Co.).

65. res.—Mechanics for the Medical Preliminary.
toml's Dynamics" (Collins' Series) and "Blackie's
ents Dynamics" are the books recommended by the
tow Uversity.

44. 'umbo (Manchester).—The best books on the ct are The Art of Soap-making" (Crosby Lockwood, J.), at Piesse's "Art of Perfumery" (Trübner, 18s.).

16. Jursi.—Homocopathic Therapeutics.—Hughes's pual' Leath & Ross, 12s. 6d.). Also inquire of the copa c Hospital, Great Ormond Street, W.C.

36. Black Tincture of Myrrh for Cattle (Tine-Aloe et Myrrhæ). Aloes, 1 lb.; myrrh, \(\frac{3}{4}\) lb.; hay n, 2 d; rectified spirit, 5 pints; water, 3 pints. Make buttery maceration for seven days in the ordinary er.

16. Ja Ursi.—Various glazes are used, but for the sem bioned the substance employed is most probably bate soda alum or mixed with borax.

centicis probably the "soluble vegetable" red colourconfectioners, and procurable from essence

1. Dymond.—Five-grain doses of salicylate of soda ime day are beneficial for "acid diathesis," but in ong-anding cases a course of tonic treatment is ted.

l. Y. Z.—Methylated spirit to which 2 per cent. droc ric acid has been added is a good preserving for sall plants.

c tineal.—There is nothing added to sugar in order e it ystallise when formed into candy. If you take you lated sugar, say 1 lb., add to it 6 oz. of water, il w constant stirring, a point is reached at which ole idealy crystallises. You require to hit a point before that, and by a little practice you will be able

rax.—Cultivation of Henbane.—You will find ation this subject in a paper by Mr. Wm. Gilmour joud, 1884, page 273, also in a paper communicated Harlby to the Pharmaceutical Conference in that We serve that the Director of the Royal Botanic s, Kr, has seeds of Hyoscyamus niger and II. niger, rexchange and distribution. A small quantity perional purposes may be obtained from him. observe reply to "Ung. Simplex."

H. A. asks:—"How can I dissolve otto of rosc in 20 c.? On heating it it dissolves, then on cooling in ecipitated. I have tried it several times. On the erfume the otto is filtered out and left on the I the best otto."

uncsolved portion is not the odorous principle of the t stearoptene, the solubility of which cannot be

increased except by the use of absolute alcohol. The otto should not be heated with the spirit, but simply agitated with it in the cold and filtered.]

14/74. Cymro (London) writes:—"In making Vinum Ferri is the part of the iron not immersed in order (as Wills says) that it may be oxidised, as the acids only dissolve the oxide, and in frequently removing the stopper the object is to admit a fresh supply of air to oxidise more of the iron? Another well-known lecturer told me that the vin. ferri liberates hydrogen, which sticks in bubbles to the iron, and the jar is shaken and stopper removed in order that the hydrogen may escape. I should like to know which is right."

[The former theory is the old one promulgated in connection with the formation of Globuli martialis (Ferrum tartaratum) by digesting iron filings in a mixture of cream of tartar and water. The theory was that the iron is converted into ferric oxide (really hydroxide, Fe₂H₆O₆) partly by the oxygen of the air, and partly by the decomposition of water, the oxide at the same time combining with the acid tartrate. In favour of this theory there is the fact that a large excess of ferric hydroxide is formed in vinum ferri during maceration; also that no one, as far as we are aware, has demonstrated the correctness of the direct combination theory.]

Lukeman.—The best way to affix labels to tins is to varnish the tin, and when dry stick on the label with ordinary mucilage.

178/14. J. H. Kirby.—To whiten Pianoforte Keys make a paste of precipitated chalk and solution of ammonia, apply this to the surface with a brush, taking care that none gets between the keys. When dry brush off. Repeat if necessary, and polish with a thick mixture of wax and turpentine.

14/15. Progress thinks it would be a great boon if patent-medicine stamps were perforated like postage stamps are, and asks what would be the best plan to bring about this needful reform? The only course we know of is for those who feel the necessity to press it on the Board of Inland Revenue, Somerset House.

15/32. F. M. C.—Candidates for the Sanitary Science Certificate (Cambridge) must be on the medical register, and twenty-four years of age. The examination is in two parts: I. Physics and chemistry; II. Public health laws, sanitary statistics, epidemic and infectious disease, and sanitation generally. The examination lasts two days, and is oral, practical, and in writing. Fee, 4l. 4s.

19/59. Lin. Plumbi Lactatis Co.—M. P. S. writes:—
"If 'J. A. C.' will try the following I think he will find it
answers the purpose:—Take a pint of fresh cream, and to
each ounce add I grain of salicylic acid, cissolve, and then
add f. Jij. liq. plumbi subacet. B.P. Of course the quantity
of liquor plumbi can be raised if necessary. It is the old
cremæ lithargyri (see "Beasley"), with the addition of
acid salicylic. The label may possibly have something to do
with its efficacy.

19/44. Lambing Oils.—0il sends a label for this preparation supplied by certain printers, the directions on which read thus:—

Shake the bottle well and apply it to the parts in the usual way. Give two table-spoonfuls for a dose. Should the pain continue, repeat the dose every hour and a half.—In Entraordinary cases, where the pain does not abate, the dose may be increased one half.

Oil was not aware that the preparation was ever given internally. Oil uses 1 oz. of carbolic acid to 40 oz. of sweet oil coloured.

Carbolic acid in oil is not unfrequently given internally, but it is not a practice we can recommend for straining in ewes. When they die of septic symptoms, it is because the

poisonous matter has already been absorbed, and drenching the animal with a view to counteract it is useless. It is far better to apply the antiseptic by a syringe or small hand to the parts, and thus go to the origin of the malady and prevent septicæmia. In cases of prostration, where it is feared the morbific matter may have already been absorbed, it is better to give the following:—

M. Pro dosi. Bis die.

Some veterinarians of eminence give

Tinct, opii	 			 - Mix
Ether sulph.	 			 3ss.
Aquæ ad	 • •	••	• •	 Зij.

Pro dosi. Bis dic.

while others attribute the absorption of morbific matter to the non-contraction of the uterus, and give small doses of $\operatorname{ergot-}{\mathfrak m} x$ to xv. of liquor $\operatorname{crgot}{\mathfrak a}$, with pulv. zingib. $\operatorname{5ij.-}{\mathfrak m}$ mixed with half a pint of hot ale or thin gruel.

There is no doubt ether and opium act most beneficially, but the action of ergot is uncertain in ruminants.

9/66. F. Clarkc.—Bracher's apparatus would suit your purpose, but see advertisements which appear in this journal periodically, and apply to the various makers for full particulars.

11/68. Lin. Saponis.—(1) The substance which you describe is sold by pedlars in London as "lavender." It appears to be a dried vegetable substance upon which a few drops of oil of lavender have been placed. (2) It is not intended that the whole of the soap in lin. saponis should dissolve; the margarate of soda of the soap is insoluble, and the oleate soluble. Use good Castile soap, and be careful to macerate at 70° F., as the Pharmacopæia directs.

13/28. Y. D.—We must leave Mr. Loisette to make his own announcements,

13/28. Y. D. would like to hear whether hiring out syringes or other apparatus is profitable.

12/15. W. B. R.—Liq. Santal Flav. Co.—The last issue containing this formula being out of print we now reproduce it for the satisfaction of several inquirers.

Ol. santal. flav.		 	 200 n	ninims
" cubebæ		 	 100	,,
" copaibæ		 	 30	,,
", pimentæ		 	 5	,,
" cassiæ		 	 5	19
Tinct. buchu .		 	 (00	11
Inf. buchu co. (1 t	o 7)	 	 600	11
Aque	• •	 	 300	**
Sp. vini rect		 	 720	,,
Liq. potassæ		 	 600	49
Pulv. lap. pumicis		 	 3 d	rachms vel
Calcis hydrat.		 	 1 o	Z.

Heat the liquor potassæ to the boiling-point, and pour into a bottle along with all the oils. Allow to stand for two days, shaking oceasionally; after which add the water, and let stand for half an hour, and then add the tinct. buchu, inf. buchu, and spirit, and shake well together. Lastly, add the lime or pumice-stone, and allow the whole to stand for three days, when it may be filtered through paper.

13/12. Non-alcoholic.—Salicylic acid, bisulphite of lime, glycerine, and boracic acid are the most commonly used preservatives for unfermented wines, except in those cases where alcohol is added. Salicylic acid is, on the whole, the most satisfactory of these; it should be used along with glycerine—say, 10 grains of the acid and 2 oz. of glycerine to each pint of syrup.

10/70. Quebec.—The following is the Bromp lospital formula for Mistura Scille Composits:—

The "Brompton Hospital Cough and Consumive Cure" is, we believe, a proprietary article, for which we the formula.

Delta, E. M, and others.—In giving a formul ast week for Chilblain Cerate, we stated that the tinctu of arnics should be omitted for unbroken chilblains. For 'abroken' read "broken."

17/16. Temperance Experiments.—Mr. Ja: Brown, Ampthill, says "Spes" will find some information in "The Worship of Bacchus," published at 2d. and 1s. by Band of Hope Union, 4 Ludgate Hill. He can give him a arc copy. An interesting experiment is detailed in THE CH IST AND DRUGGIST, December 11, 1836, p. 769.

13/9. Ponder. — (1) All veterinary colleges pharmaceutical Preliminary examination, the 1 do one only recognising the limit of four years. (2) F full particulars regarding the prospects of veterinary second we must refer you to our last Educational number (Sc mber 17, 1887).

13/61. F. J. F.—In testing the residue of lithi vater by the flame test it must be moistened with hydrochl; acid.

19/29. Camphin.—You will find an article coming the British and Australian examinations in THE CHEST AND DRUGGIST, May 14, 1887, based on a lengthy art which appeared in The Chemist and Druggist of Australia for April, 1887.

Python writes as follows:—Salicylic Collodion ade ac cording to the usual formula (see Extra Pharmaco a) get like a jelly after a few dips have been taken from bottle 1 should be glad if anyone could tell me how to object this It is not due to impurity in the acid, as I have ed the natural acid.

[Golatinisation, other than that due to evaption of ether, sometimes occurs owing to modification of the pyroxylin. We presume that that is the cause in scase and would advise a change in the kind of pyroxylin od.]

14/7. Subscriber (Cardiff) would like to know:-) Best remedy to stop bleeding of leech-bite. [Powdered liq ferri perchlor.] (2) Whether Dutch Drops ou stamped? [Yes. They are in the schedule.] means of preventing eye turning black after receiving [A piece of raw beef, a leech, or Solomon's seal.]

17/44. Cymro.—We do not know the preparation

14/31. C. C.—A perfume is sometimes added to king We do not know the odour of Berry's. Amongst perfumes used are wintergreen, cassia, origanum, and we are

14/18. Omega.—You will notice that there is now in liq. ammon. acet. fort. in the Pharmacopeia. To ake 1 to 7 preparation, powder 15½ oz. of carbonate of a conia add to it 3 oz. of glacial acetic acid and 30 oz. of ac acid mixed, and when effervescence ceases, sufficient act to neutralise and distilled water to 45 fl. oz. For deco. conc. see last week's issue.

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(Prepared exclusively from Opium.)

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Dose, the same as that of Tinct. Opii, B.P.

Price 8s. per pound.

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Æ 1ers, pure & methylated.

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white colour, retain; its
full aroma, pungen and
strength and guar leed
absolutely pure an
ble in spirits of win

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Challe Cups seement in next Chemist and Drawood.

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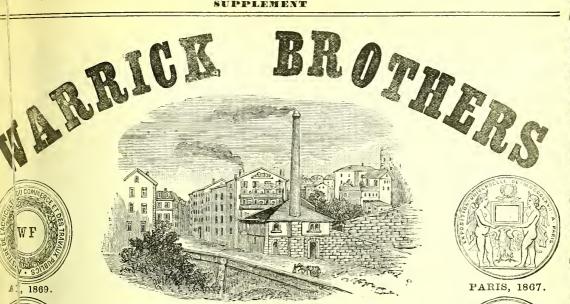
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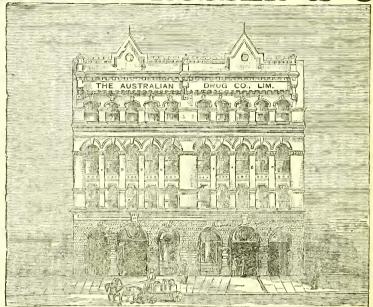
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"I hereby certify that this is a genuine unmixed Mustard Seed Oil.—(Signed) A. NORMAN TATE, F.I.C., F.O.S., Liverpool, August 8,18

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MINT, NOT deprived of its Menthol, 8s. 9d. per lb. In original 22-oz. bottles.

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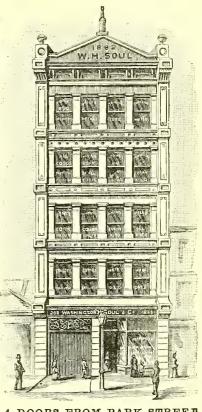
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For Coughs, Colds, Asthma, Chronic Bronchitis, and Consumption.

In Bottles, $1/1\frac{1}{2}$, 2/9, 4/6, 11/-, and 22/-.

FINEST REMEDY IN THE WORLD.

Sold by all Chemists and Medicine Vendors in GREAT BRITAIN and IRELAND,

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R. FLEMMING'S QUININE AND CAMPHOR PILLS.

Fo Indigestion and all Nervous Diseases, and as a General Family Medicine. In Bottles, 1s. $1\frac{1}{2}$ d. and 2s. 9d.

For Marvellous Cases of Cure see Mr. CONGREVE'S BOOK

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Over Two Hundred Thousand of which have now been Sold.

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t must no be some twenty-five years since first I saw in the person to the first is the effects of your remedy. He seemed at death's but he lift now, a strong, hearty man. Since then have seen in many, very many instances the most happy to the lift now, a strong, hearty man.

I have seen in many, very many instances the most happy to the lift now a seen in many, very many instances the most happy to the lift of lift of

From the "CHRISTIAN HERALD" (Edited by Rev. M. Baxter, Minister of the Church of England), March 31, 1886.

England), March 31, 1886.

"Mr. G. T. CONGREVE'S TREATMENT of CONSUMPTION and OTHER CHEST DISEASES continues to be made a great blessing to sufferers far and wide in every part of the kingdom.

"The world, and we ourselves, owe him a debt of gratitude. Not long since we placed a young lady under his care, who has recovered her health, and we need only point to the cases (Mr. Congreve is publishing one every week), many of which bave been given up as past all hope.

"There can be no doubt that for Consumption and other chest complaints, Mr. Congreve is a specialist of the first order, and stands unrivalled. Certainly there has been no other discovery in medical science from which the consumptive patient may gather so much hope as from his.

"The one handred and thirty-three cases which are recorded in Mr. Congreve's book are a convincing testimony; but what have been long a marvel are the cases of cure which have been published for several years past in the weekly journals (our own included), one every wast."

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PURE ESSENCE AND EXTRACT OF PUMILIO PINE.

We beg to announce to the Medical Profession, and also to Chemists and Druggists, the we have opened a depot at 11 Billiter Square, E.C., for the constant supply of PUMILIE.

STERN'S PUMILINE, after careful analysis by competent authorities, is proved to be the Pure Essence and the Pure Extract of the Pumilio Pines grown on the higher altitudes of the Alps in gions of perpetual snow, and an acknowledged remedy for Gout, Rheumatism, Throat and Chest Affe ions.

Owing to the peculiar medicinal and sanitary properties of Pumiline, which it alone of all Pine sparations (except Pinol) possesses, because it is extracted only from Pumilio Pines which grow in the sno it can with safety be recommended for internal administration in cases where ordinary Terebene, Pini Sylvest, &c., and the Essence of Pumilio Pines growing below the snow line cannot be used. The analytical reports splain the difference.

We have received more than two hundred letters from Medical Men testifying to the satisfactor esults obtained by treatment with Pumiline.

SIR MORELL MACKENZIE writes :-

December 9, 1887.

"I have much pleasure in stating that I have made use of Oleum Pumilionis, and that I consider it a most valuable preparation.

"It acts as an admirable tonic to the mucous membrane of the air passages in cases of chronic bronchitis and laryngeal catarrh.

"I am very glad to hear that the remedy is about to be used on a large scale, and I have no doubt the results will be highly satisfactory." W. SPENCER, Esq, M.D., L.R.C.P., L.M., R.C.S. (Retford), writes:—

"I have used Pumiline Essence with very sa actory results in chronic laryngitis. Pumiline has been in more effectual than terebene in chronic bronchitis."

DR. GREGORY SALE, L.K.Q.C.P., L.M., L.R.C.S (Na18, Ireland), writes:—

"I am myself a sufferer from chronic rheumatic put. I have much pleasure in stating that I have found mu benefit in the use of your Pumiline."

The Lancet, in an article by Dr. Prosser James, the eminent physician and lecturer on Therapeutics and Materi says:—By improved apparatus and greater care a much finer product than the ordinary Pumilio Pine Oil is now tained, in fact a very pure essential Oil—Oleum Pini Pumilionis, and this it is which has lately been imported under the pumiliary. This essential Oil possesses in a high degree the odour of the most fragrant variety of the e, and, moreover, is less irritating than any other.

The Journal of Laryngology (edited by Sir Morell Mackenzie) says:—We have submitted Messrs. Stem's proper ions to practical examination. Their purity is undoubted. The Essence contains fewer hydrocarbon oils than any othe similar preparations in the market, which fact alone makes it the best obtainable for inhalation treatment. We accord Messrs. Stem's preparations the first place in the market.

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1/6 and 2/6 per bottle

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15/ and 24/ per dign.

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[See opposit. 19e.

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I has lately come to our knowledge that a very inferior quality of a ssence and Extract, fallaciously called Pumilio Pine Essence and to the trade generally in the real Pumiline, which is the only pure Oleum Pini Pumilionis.

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therefore most earnestly invite Chemists throughout the United to co-operate with us in bringing our preparations before medical wh whom they are connected, as well as the public; and we feel that their customers will highly appreciate the efficacy of the tilin Preparations, and that they themselves will be satisfied with the real scounts provided for them.

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SEE OPPOSITE PAGE.

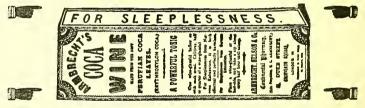
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One doz. Case, 40s.

Three doz. Cases, 40s., and $2\frac{1}{2}$ per cent. discount. Six doz. Cases, 40s., and 5 per cent. discount. Twelve doz. Cases, 40s., and $7\frac{1}{2}$ per cent. discount.

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An extra 2\ per cent. for Cash with Order, or nett Two Months' Bill of Acceptace.



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[See opposite pa

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FOR FATIGUE OF MIND AND BODY.

EW RESTORATIVE TONIC OF VOCAL, MENTAL, AND PHYSICAL POWERS.

Particularly useful in Hot and Enervating Climates.

June 28 th 1884 I have hem delighted with the samples of loca Wine which Jone have pest me there is a minute animaliste what is dissicated by the heat of humans, I which revious on the application of the heat of humans, I which revious on the application of the heat of water, ambreothe loca Wine has a similar whether in reviews of the branches are recovery to protect on human when the order of the human continuous to provide the human continuous the human comments are marvellous and another to the provident of motions with lute yout debot of motions

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Vin
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or sleeplessness this Wine is almost always successful, and superior to Opiates, Chloral, and Bromides, &c., as it produces no reaction.

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COHOL ORIGINAL AND ONLY GENUINE.

IMPORTANT CAUTIONS

From Lord Chancellor SELBORNE, Vice-Chancellor Sir W. PAGE WOD. and the LORDS JUSTICES OF APPEAL.

VICE-CHANCELLOR SIR W. PAGE WOOD, by whom the suit in Chancery was first heard, stated in his judgme, hat Dr. J. Collis Browne was undoubtedly the Inventor of Chlorodyne, that the whole story of the Defendant Freeman 1 as deliberately untrue as the falsehood he had deposed to with reference to the use of his Chlorodyne in the Hospital.

The VICE-CHANCELLOR also stated, 'that Chlorodyne was a fanciful name, and had application been made soon the

Court would have given Dr. Browne protection.'

LORD CHANCELLOR SELBORNE coincided with the judgment of the Vice-Chancellor upon this point, and state had application been made at a proper time and place, the Court would have found means to restrain the Defendant from presenting the decision of the Vice-Chancellor.'

LORD JUSTICE JAMES, on appeal, stated in his judgment, 'that the Defendant Freeman had made a deliberate min pre-

mentation of the decision of Vice-Chancellor Wood.

It was proved in Court, on affidavit by Mrs. Forbes, of Paris, that the testimonial published in the Times, November th, :865, speaking of the great efficacy of Chlorodyne in Cholera, referred to Dr. J. Collis Browne's Chlorodyne, and that she val used any other, that she had written to the Defendant Freeman to that effect; notwithstanding which notice the Def and publishes the said testimonial as referring to his medicine.

The Editor of the Medical Times, in his report on Chlorodyne, January 13th, 1866, gives information that the Chlorodyne referred to was the medicine introduced by a retired Army Medical Officer, which was Dr. J. Collis Browne; still this is put by the Defendant as testimony to his medicine.

Numerous affidavits from eminent Physicians and others were produced in Court, stating that Dr. J. Collis Browne with inventor of Chlorodyne, and that when prescribing they mean no other.

The Defendant himself publishes that his compound is in effect and composition quite different to any other prepar on:

nevertheless he assumes the name, testimonials, &c., of Chlorodyne.

Technicalities in law prevent that protection which the public should justly have against such a course of conduct. It incumbent on all who purchase Chlorodyne to see that the name, 'Dr. J. Collis Browne's Chlorodyne,' is engraved the Government Stamp, as it is not sold otherwise. All other compounds under the name of Chlorodyne are spurious. All att pts at analysis have failed; hence the statement that the constituents of Chlorodyne are known is a misrepresentation.

TRADE MARK Price of this Bottle COLLIS TH CHLORODA T.DAVEN J G' Russelt &

NOTICE. FURTHER IMPORTANT

The subjoined list of eminent Firms concur with Vice-Chancellor Sir W. Page Wood's statem in Court, that Dr. Collis Browne was undoubtedly the Inventor of Chlorodyne; and that when Chlor ne, or the Original Chlorodyne, is ordered, they invariably supply Dr. J. Collis Browne's:-

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	Apothecaries' Hall,	London
	Allen, Hanbury & Co.,	99
	Baiss Brothers,	. ?
		Birmingham
	Barron, Harvey & Co.,	London
	Bell, John, & Co.,	99
	Bourne & Taylor,	11
	Corbyn & Co.,	10
	Cox & Gould,	"
	Curling & Co.,	91
	Curtis & Co.,	21
	Davy, M'Murdo & Co	
	Dobbin, W., & Co., Limit	ed Belfast
	Drew, Barron & Co.,	London
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	Dunn & Company,	***
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	Evans, Gadd & Co.,	Exeter
	Evans, Lescher & Webb.	London
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Hopkins & Williams,	22
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Hunt, A., & Co.,	, ,,
Johnson, J. H. & S.,	Liverpool
Langton, W., & Co.,	London
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	verhampton
Marsden & Sons,	London
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Foulger, S., & Son, After these public statements in a Court of Equity, and subsequent confirmation by the trade at large, no Chemian conscientiously use or sell any other compound for Chlorodyne without committing a breach of faith, unjust to patient and physical the remedy alone greates the great description. The value of the remedy alone creates the great demand.

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Fredom from indigestible fatty acids.

Brilliant appearance in severe frosty weather. Absolute purity.

It is sen ut in first-class style, 8-oz. Bottles, which retail at 2s. 6d. each; 18-oz. Bottles, 4s. 6d. each; Wholesale, 16s. & 32s. per doz. The Bottles are so securely sealed that the Oil, even in hot climates, remains perfectly sweet.

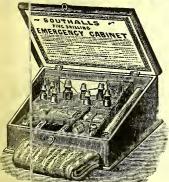
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A the burnt in a room a few minutes before going to bed will drive away or stupefy all kinds of Mosquitoes, Flies, Beetles, and other annoying Insects.

SOUTHLL'S MOSQUITO CONES, being composed of entirely harmless aromatic plants, give off an recable odour, which even the most delicate persons can tolerate. Price 7s. 6d. per doz.

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Containing Burn Liniment, Styptic Colloid, Sal Volatile, Adhesive Strapping, Gauze Tissue (for making Pads), Bandage, Camel-Hair Pencils, See. The whole, in a cardboard box, with directions for the treatment of Wounds, Burns, Bilisters, Insect Bites, Faintness, & Camel-Hair, Sweet Bites, Faintness, & Wholesale Price, 9,6 per dozen, less 5 per cent.

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5s. Emergency Cabinet
This is larger and more complete. The whole in a neat
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Retail, 5/- each Cabinet; Wholesale, 48/- per dozen, less 5 per cent.

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THE CHEMIST AND DREGGIST of January 7th says:

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Special prepared for Surgical Purposes, and superseding Lint, Cotton, Wool, Tow, and Oakum for Dressings.

Extract m a letter on "Antiseptic Dressings in Military Surgery," taken from the British Medical Journal, signed
P. Stafford, L K.Q.C.P., Surgeon-Major, late Senior Medical Officer, Divisional Field Hospital, South Africa:

"Tenares applied to some of the injuries of the Pattle of Ulundi, but was oftener employed to form node cushions or "Tena: ras applied to some of the injuries at the Battle of Ulundi, but was oftener employed to form pads, cushions, or swathes f the wounds, outside the lint dressing, to absorb discharges. This treatment was attended by the best results.

"I thin that Tenax is more efficacious as a deodorant and absorbent than Carbolised Tow, although the latter is softer and

more com table as a direct application to painful wounds."

"It possess the tarry fragrance which is pleasing to patients; it is a cheap and simple kind of antiseptic dressing, capable of being app d to numerous surgical purposes, and is well worthy the attention of medical men engaged in hospital or private practice. We may safely recommend it, and it has answered admirably in the cases in which we have applied it."—The Lancet. In 1-lb. Packets, 1s. 4d. per lb. Special quotations for large quantities.

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Retail, s. & 2s per Packet of One Doz. Wholesale, 10s. & 20s. per gross, to a/c. For protection against useless and injurious imitations each Packet bears the Signature of the Patentees.

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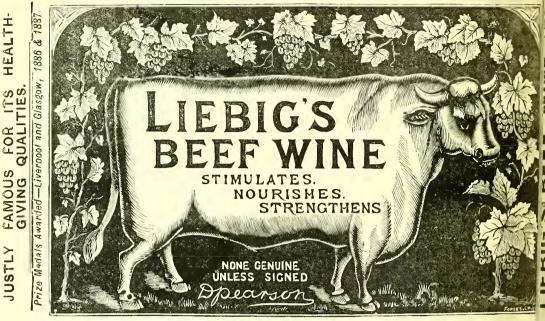
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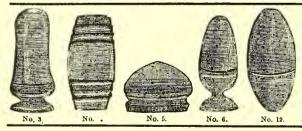
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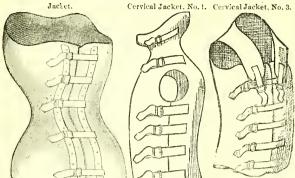
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Circumference at axilla.

What

In what

In severe angular ca-es c reum
ference over apex of enree, position of ditto, and contour should

be g'ven; in lateral ca-es a

description of the case.

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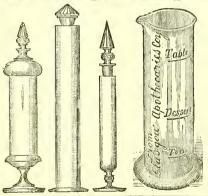


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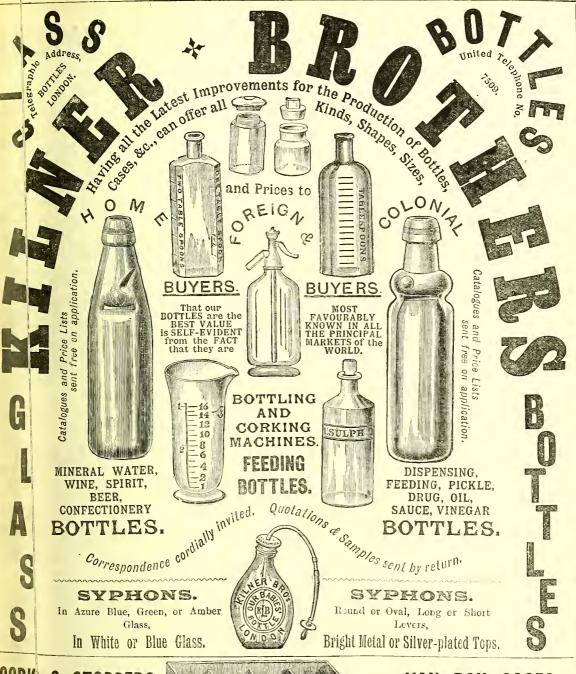
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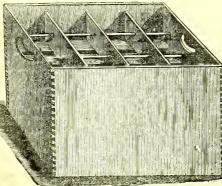
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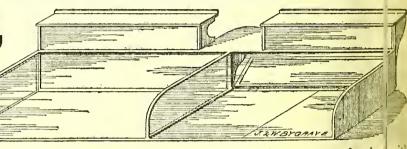
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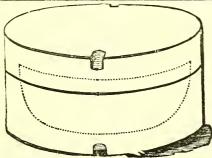
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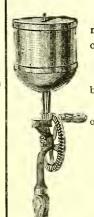
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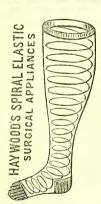
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Surgeons who have not seen our White Absorbent Roll Bandages should write us for a sample. As well as being all that is required for splints, &c., being instantaneously absorbent, Lotions can be applied direct through the Bandage, and they are also the very

We were the Sole Manufacturers of Absorbent Cotton Wool for the late Sampson Gamgee, Esq., F.R.S.E., who introduced it into British practice, and have had a large and increasing demand for this article up to present date. We make a first-class article for Surgeons' private practice, and a pure cheap Absorbent Cotton for Hospital use. We are also Carders of both Grey and the ordinary grades of Non-Absorbent White Cottons.

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GAM EE Ti sue."

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This patented article, recently introduced, and of which we are the sole proprietors and manufacturers, is deservedly increasing in favour with the profession. We quote the following extract from a Clinical Address delivered by Sampson Gamgee, Esq., F.R.S.E., Consulting Surgeon to the Queen's Hospital, Birmingham:—

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surgical dressing with which I am acquainted.

"The tissue, as made in long lengths, is perfectly uniform in surface and thickness, and can be cut to any shape or size to pad the trunk or the limbs, in case of disease or injury. Powerfully absorbent and elastic, the tissue is equally serviceable for drainage and compression, for dressing blisters and burns, wounds and ulcers, sprains and fractures. The tissue does not stick in wounds, and can be applied and taken off with facility and without pain. It does not lump together but remains uniform, and is a most soothing and healing application to inflamed joints, and many skin affections.

to inflamed joints, and many skin affections.

"The tissue is susceptible of any antiseptic medication, and it also takes up plaster-of-Paris, cream, liquid glass, collodion or paraffin so readily as to make an excellent basis for splintage and moulds. A limb or the trunk may be very speedily and effectually immobolized by surrounding it with a layer of the dry tissue, and outside that placing a layer, or intersecting slips, of the same material previously soaked in plaster-of-Paris, cream, or other solidifable substance"—which is best kept into its desired position by Robinson & Sons' Absorbent Bandages.

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ROTARY PILL MACHINES



Fig. A.

Fig. A.—This invention consists in a novel and improved arrangein a novel and improve a rrange-ment of Machinery, whereby any description of Pill Mass can be converted into Pills, at the rate of from 15 lbs. to 40 lbs. per hour, according to the size of the Machine used.

Fig. A.-No. 1 .. £12 12s. No. 2 .. £15 15s.

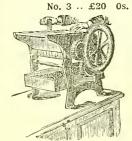


Fig. B.

Fig. B .- A small useful Machine, eapable of making 10 lbs. of Pills per honr, particularly adapted for persons making small quantities,

at £7 15s. Press suitable for same, £2 15s.

Any of the above can be made to cut two or three different size Pills, af an additional cost for extra Rollers and Pla'es.

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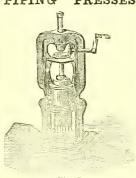


Fig. C.

Fig. C. is the improved Press for Piping, by means of which a great quantity of Mass can be Piped in a few minutes, truer than by the cld method of rolling.

No. 1 £3 0s. Fig. C.—No. 2 .. £5 10s. No. 3 .. £8 Os.

As used to this date by Messrs. Holloway, Cockle, Cox, and all the princip Pill Makers in Europe, Asia, Africa, America, and Australia.

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These Machines are on a similar principle to the Rotary Pill Machines that have given such great satisfaction in all parts of the world. Price £8 15s.

Rollers for other sizes, Riggers for Steam Power, also Gas Apparatus if required, supplied at a small additional east.



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Mr. J. W. PINDAR,
Sir,—The Rotary Pill Machine am ress we had from you (for a special order satisfactorily.—We are, Sir, yours resulted that you are the satisfactorily.—We are, Sir, yours resulted that you are the satisfactorily.—We are, Sir, yours resulted that you are the satisfactorily.—We are, Sir, yours resulted that you are the satisfactorily.—We are, Sir, yours resulted to the satisfactorily.—We are the satisfactorily.—We are the satisfactorily to th

29 Murray St., New York, and Ft agdon J. W. PINDAR, London Dv. 9

29 Morray St., New Tork, and ry Mr. J. W. PINDAB, London by St. New Tork, and the London by St

Mr. J. W. Pindar. 224 Strand, 13th March, 1866.
Sir,—I have much pleasure in stating that the Pill
Machine which you made for me answers remarkably
well, as the Pills are far better made than those by
hand-machines, and with much less waste. I can
therefore, confidently recommend it as a very excellent one, a great saving of labour and, consequently,
expense.—I remain, yours faithfully,
THOMAS HOLLOWAY. Mr. J. W. PINDAR, 224 Strand, 13th March, 1866.

3 Crane Court, Fleet Street, Feb. 14th, 1371.

To Mr. J. W. PINDAR.

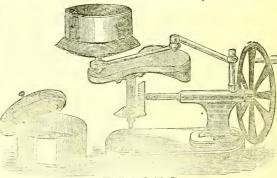
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Invented and made by J. W. PINDAR, Patentee. By an entirely are of mechanism this achir structed in a mar whi



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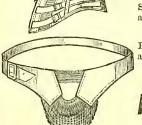
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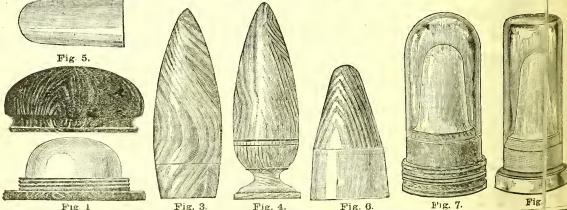
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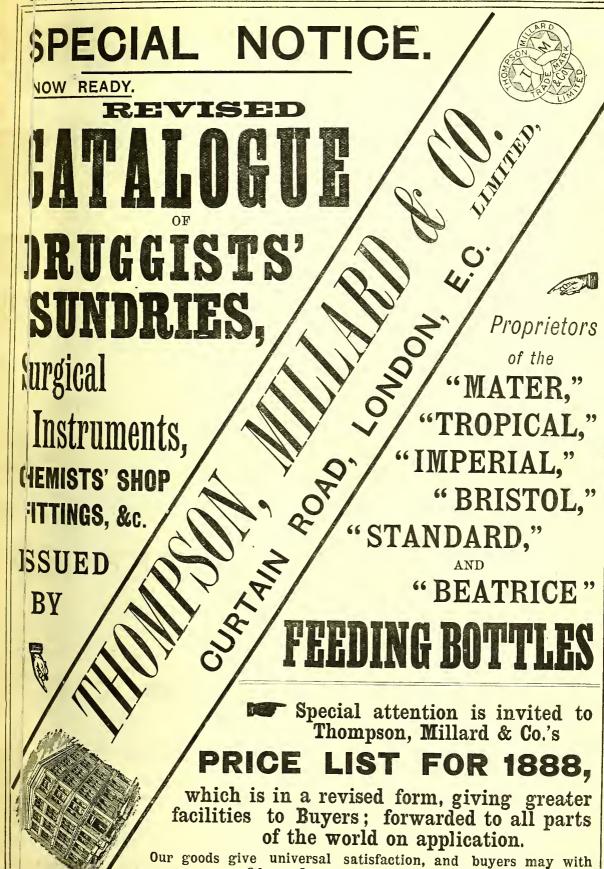
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E.	1g. 1	Fig. 3.	Fig. 4.		B.1	g. o.		Fig. 1				_
Fig. 1.	In Ebony Cases,	lat for the pocket			•••					Per d	oz.	- -
	In Boxwood Case	s, per doz., 3/- an	d 4/-; in V	egetab	le Ivory		•••			**	4 1	161.
Fig. 3 & 4.	In Boxwood Case	s, per doz., 2/8 ar	d 4/~; in V	egetak	ole Ivory	7	•••			"	4/1	3 216
Fig. 5.	In White Opaque	Glass Jars with	Red Cellulo	id Cap	s	•••	•••			,,	2/1	16 DIO
J	Mounted, in Stop	pered Bottles .			•••		•••			>>	10	e e
Fig. 6.	Mounted ou Vege	table Ivory, in Gl	lass Bottles,	Screv	v Metal	Caps				,,,	Oline	J 5/9
Fig. 7.	On Boxwood Mou			•••						***	3/	nd 8/-
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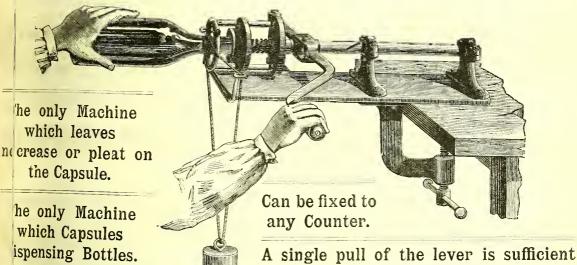
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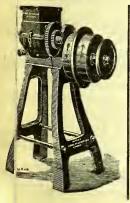


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GRIFFIN v. NOAKES. 1887. G. No. 1,088.

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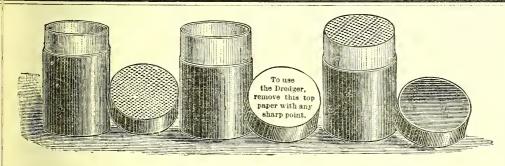
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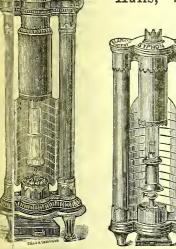
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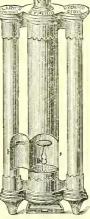
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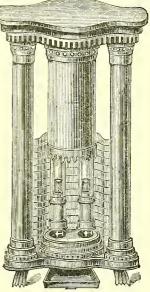






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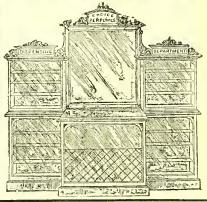
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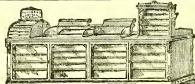
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Of all Chemists and the Manufacturers,

I have analysed a sample of Meuphrosine, selected by myself from the stock at Messrs. S. Ratti & Co.'s war ouse, and have discovered in it no Laudanum nor other preparation of Opium, nor alkaloid therefrom, such as Morphia, &c. The active principles of Henbane, Aconite, and Indian Hemp (Cannabis Indica) were also tested for, with negative results, d I found the preparation to be free from Chloral Paraldehyde and Amylic compounds. Bromides too were absent.

Meuphrosine is practically non-alcoholic, and I have been unable to detect in it any ingredient of an objectionable or injurious nature.

EDWY GODWIN CLAYTON, F.I.C., F.C.S., Member of the Society of Public Analy, &v.

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GENTLEMEN,—For many years I have been a great sufferer from indigestion, dyspepsia, and flatulence, notwithstanding occasiona eatment by medical men, and also the use of many patent medicines. Recently I was induced to try your Meuphrosine, and a few bottles have entity rid me of these distressing ailments, besides giving me great relief from palpitation of the heart, from which I also suffer, but hope after a few mo ottles to be entirely relieved. I can, therefore, with confidence recommend your medicine to any suffering as I have done. You are at liberty to me is use of this letter if you desire to.

Messrs. S. Ratti & Co.

137 Hungerford Road, Camden Road, N., Septem 9, 1887.

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I would caution anybody that was needed in the first bottle does not cure.

RICHARD 1 DNER.

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Gentlemen,—Having been a sufferer from sleeplessness for many years, and failing to find anything to do me real good, although, Novem good, I began to think nothing would do me good—in fact, medical men told me so; but I think it only right to inform you of the ground of mine, well knowing my case, advised me to give your Meuphrosine a trial, and to this end obtained some for me; now, I mays friend of mine, well knowing my case, advised me to give your Meuphrosine a trial, and to this end obtained some for me; now, I mays shave not had a good night's rest for years, but the first dose I took, I must say the result to me was wonderful, for I had a most refreshed and although my heart is very weak (it has been a complete puzzle to medical men) I felt no ill effects, but much refreshed and strengt cach night I have taken it. You are quite at liberty to make what use of this you may desire for the good of others, and I shall be answer anyone who could wish to write to me privately. You will be good enough to send me four bottles more by return, and much ob.

Yours sincerely

9, 1351.

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TE contest between true pharmacy—between the skilled chemist and druggist and the purely commercial store—that is now being waged throughout Great Britain, reflects the contest which manufacturing Pharmacists of ill and integrity are waging against the quacks and charlatans. The protection of the honest retailer, and the sectly of the honest manufacturer, are in the superior quality of their goods. The success of the Physician and Surgeon depls chiefly upon the integrity of the medicines and appliances they employ, and they, as well as the public whom they see have already learned to be distrustful of the quality of "Cheap John" Pharmaceutical preparations. Our efforts are what to further the interests of legitimate and progressive pharmacy, and for that reason we adhere strictly to the policy of thing but one quality, and that the best.

he status of the whole plaster business is well known by the analysis of Belladonna Plasters, the leading article on e list of spread goods, made in March, 1886, by Dr. Albert P. Prescott, Professor of Chemistry at the University of Miczan, and President of the American Chemical Society, from goods purchased by him in open market. The assays wernade by the same process, in parallel operations, for the quantity of total Belladonna alkaloids, estimated as atropine, and eresults showed that our Belladonna Plasters contained more than double the quantity of atropine contained by any her make, and also corresponded with the standard laid down by the British Pharmacopæia and United States

Pha acopœia.

911

he results of Dr. Prescott's analysis confirm those previously made by Professor Doremus and Dr. Battershall, and late by Mr. William Rupp, F.C.S., at their laboratories in New York City, and by S. W. Williams, at the laboratory of the Colle of Pharmacy. Our Plasters may, therefore, be depended upon to afford the full and prompt therapeutic effect controlled by the officinal formula and expected by Physicians. That the same effect cannot be expected from the inert pregations put upon the market by other makers is fully proven by the analysis alluded to, and what is shown to be true of Bellonna is equally true of all other goods on the list.

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edo not deny but what reputable chemists may have been supplied direct with "stuffed" Belladonna Plaster, or direct to obtain their supplies from some source which had previously been stocked with such goods, nor would it be impelble to make a debased counterfeit of our goods placed in our own container, and set it in the way of unwary chemists. We then o exhibition goods. The goods which we submit to jurors at exhibitions are taken from our regular stock, and the gds which chemists analyse for us are always bought by them in the open market without even a suggestion from us as

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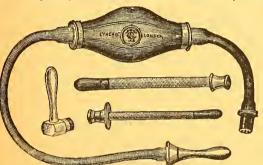


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38d. for fifty words; 6d. for every 10 words beyond.

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(JALIFIED Assistant wanted at once for China, wing a knowledge of French and of the manufacture of Asted Waters; first-class experience and highest reference indispensable; 25 to 30. Q. A. 887, Messrs. Deacon's Adv. sing Offices, 154 Leadenhall Street, E.C.

NCH Manager; to reside on premises; house and gas free; married preferred; must be qualified rout. State salary, &c., to Butler & Son, Chemists, Sanvey Gate eicester.

LIAM HESELTINE & SON, Wilson Street, Finsbury, E.C., are open to engage a first-class man to introce and appoint Chemists as Agents for their Teas; liber terms to one having necessary qualifications (see full page divertisement appearing in this issue). Apply by letter, as alve, in first instance.

NTED, by Chemist and Dentist, an indoor Assistant who can do mechanical dentistry; must be of good address and well recommended; short hours; state required. "Dentist," Office of THE CHEMIST AND DRUBST, 42 Cannon Street, London, E.C.

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UNIOR; 8½ years' experience; satisfactory references. A. Grist, Bidboro', Tunbridge Wells.

RANCH Manager; held three appointments; aged 35; London preferred. Walker, 5 Campbell St., Hull.

ASSISTANT or Manager; disengaged; qualified.
Apply, A. P. S., Medical Hall, Llandudno.

AS Assistant; aged 23; good experience. "Minor," 119 Eastgate, Rochester.

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ASSISTANT, Minor qualification; aged 25. H. Maddock, Kersal Towers, Kersal, Manchester.

ASSISTANT; aged 33; Minor qualification; open to immediate engagement; good dispenser, active worker. L. P., 2 Eagle Place, Piccadilly.

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WANTED, by an experienced Druggist, management of a Branch Shop; 20 years' reference from last situation. Address, G. B., 19 Cottage Grove, Clapham, S.W.

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MANAGER, Assistant, or Dispenser; good varied experience; at liberty first of April. "Mac," 52 Marchmont Street, Russell Square.

 $\begin{array}{c} {\bf ASSISTANT} \;;\;\; {\rm aged} \;\; 25 \;;\;\; 3\frac{1}{2} \;\; {\rm years'} \;\; {\rm reference} \;;\;\; {\rm abstainer.} \;\; {\rm Reply, \; stating \;\; hours \;\; and \;\; salary \;\; offered, \;\; to} \\ {\rm Ives, \; Station \;\; Road, \;\; Colchester.} \end{array}$

ANAGER; qualified; experienced in Prescribing; married, or able to arrange for domestic life; best references only. W., 185 Shirland Road, W.

ANAGER, Dispenser, or Laboratory Assistant; qualified. "Major," 30 Trinity Street, Borough, S.E.

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WHOLESALE.—Advertiser seeks situation at the Wet or Dry Counter; 1 year in present place, 4 years previous; good references. "Drug," Office of The Chemist And Druggist, 42 Cannon Street, E.C.

RANCE.—Advertiser (25), qualified, 16 months in English-French Pharmacy in London, seeks engagement; slight knowledge of language. Address, with parti-culars, "Chemist," 22 Stonenest Street, Holloway, London.

S Assistant; active, not afraid of work; all-round experience; good references; aged 39; height 5 ft.8 in.; single; unqualified. "Dulcamara," Chestnuts, Uxbridge,

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SEASIDE preferred; for five months in good Dispensing Business; salary no object; 4 years' first-class experience; height 5 feet 10 inches; aged 21. T. Horry, The Brewery, Boston.

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